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<210> 6528

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6528

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aatatgataa ccaatatatt ttanggtaaa atattttatt cttttanggn ctgctatctg 480
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<210> 6529

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6529

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 ntcttgaaga ctctttaag gtaatttcta cttttccctt tttggaataa ggtctacttg 480
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<210> 6530

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6530

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<210> 6531

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6531

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catgcaatca ctagataaaa aactacctag atttgtgtat ctgactccaa aattgggctg  180
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ataaacaatc tatgtagtaa ggcagtgtca aacacatccg ttttaccxaa acgacagaac  300
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aagtaggatg ttagtctcaa aatccaagaa gttaaattat taattcaaat tcaatcttat  480
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<210> 6532

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6532

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aagaaggcca tcaccattgg gaagaagtta aaatatatta tataaaatta aactaattta  180
tctttatgca ataaaatgtt agaggatacc agatgctatt tttataataa acatctattt  240
tctaaaaagg tcattatgtc atgcatacac aaacaaacag agaagcaaaa gagaaatgca  300
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<210> 6533

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6533

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tacaggtaca tcctaccaca cctggctaata tttgtattt ttagtagaga cgaggtttca  180
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caciaaagan aactgaacct caggtaagct nttaaaanga aaccaacaac tgnnggggta  480
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<210> 6534

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6534

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attgtaacat atacctcatc tcttctcaaa aagacaggaa gtctacttcg tctagtgtta  180
aatttattga tctcagccct ttaggttgaa cttaaagaat tatgtttagt ctaactaaat  240
tcatgaagct ctgaaataag agtttgacgt tttgcatca tttcttactc tgtaacctca  300

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acgacatttg tcctgaggct gtggactaca actcaagtta attacaagta ggtcatacat 360
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 aagcaacctt tgatggttaa gnccaagtcc atcctttata gtccatttta accttantag 480
 gaaggatcca tnggaaaaga cccctttingg anaattttgg ccatttcntt aaggctagca 540
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<210> 6535

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6535

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 cttcaaagtc tgtggcaaaa taatggtagc accttcagaa tcttaaataag ggattttttt 180
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<210> 6536

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6536

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 agtgttgttc ttgataaaaa accaaattat ttttctatth acaattttta gaaaaggtht 240
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 aagatcctcc tcaaacttta aggggtgaaaa gcataccatt ccattttagt tgaaatatc 360
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 tgcctactgg attattttcc cttcaactta tctaaattta aacttggtat tactgggtht 480
 tttaaattaa gttttcatgg naccagtctt caagtaattt tctttatgng gagccctcct 540
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<210> 6537

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6537

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 aaagcagctg cttttcaatt gtccaccagg tgacatgaat tcccaagttt gtactaaagc 180
 ctctctttaa gaaggagcta tggcattacc atgtaattaa ctctcttta atggaatcgg 240
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 gagcagaaat acacagacaa gtagaataaa agcagaatat cctgctaagt ggctaataaa 420
 cattggccac aggtggacac catctcaaag actnttccaa gagagcaagc ttncanatgt 480
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<210> 6538

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6538

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ttcactatga ctctgcatt atcttcaaaa taaagaaaca cgccatcttt tctacggtat  180
gactttcggt gtcgaatggg aaaactggct agccatatgc agaaaactga aactggaccc  240
cttccttata cagtatacaa aaattaactc aagatggatt aaagacttaa acgtaaaacc  300
taaaaccata aaaaccctag aagaaaacct aggcaatacc atttaggaca taggcatggg  360
caaagactgc atgagtaaaa gcaatgcgaa caaaagccaa aattgacaaa tagggcctaa  420
ttaaactaaa gagcttttgc cagcanaaga aacttttcnt cagaggggaa caggccacct  480
acaggaatgg ggagaaaatt tttgcattta tncattttga caaanggggt aatatcccag  540
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<210> 6539

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6539

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attatacagg catacgccac cacgcccagc taattttgca tttttactag agacgggggt  180
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attttataac agaaggaaga agcaaaaata aaaatccagc cctactcttc atgcncagat  420
gaccggaaag gagatcattg gatactangg ataacattgg gtttctttct tgggaagtat  480

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<210> 6540

<211> 515

<212> DNA

<213> Homo sapiens

<400> 6540

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anggatctgg ttctgctgac tactggctnn aaggccccct taagttcttg cctganggcc 480
ttttccaaag ctgggttacc atnatgggan ctgn 515

<210> 6541

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6541

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tcatatttcc ttgcttcttt gcataacctga tcattcttaa cagctttatt gatgtataac 180
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cacatgtaac tgtcaatata cttttagaat atacccaaca ctcccaaagg tttcctgatg 300
 ccctcttggg aagccctctt ttgcccctcc acactactct catccccaat acacatgaaa 360
 aattctgact agatactggc cattgtgaat ttacattct tgggtgctgga tttactgnat 420
 tatcttaaan ggatcctggc ttgtctaaca cacaataaat attttaatca attgancctt 480
 catggttgct ttcaattttg tagaagaagt ccaaggcnga ctagcctcag actaattggg 540
 cccctctttg gg 552

<210> 6542

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6542

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 tcaccgtgat ggactggcct tctctgngct ggtttcctaa tttcaaccat aanccttgta 480
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 tcctaanggt aaaggggttg ggtcttaaan 570

<210> 6543

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6543

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ccaaaagaaa ccctgtccaa taaccattca cttctgnttt tccttccctt agcccctggc 480
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cttttggggt t 551
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<210> 6544

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6544

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tcataccatt taccaaaaca aaacanaaaa cacttctggg gtgaatgtct gggcattctt 480
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aaaaagtcgg 550
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<210> 6545

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6545

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ttntttgggt a 551

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<210> 6546

<211> 427

<212> DNA

<213> Homo sapiens

<400> 6546

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anatgggggt ttggggtttt gccacgttgg ccaggctgct aatangtatg gattttgggg 240
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atactagaaa ccactaaatt atatgcttta tgagaagtca attttatggt tngtgaattn 360

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tatnccaata aagccatttn taaaaaaaaag antcggcngg gacaattact aaaagtgagg 420
ngtcttg 427

<210> 6547

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6547

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gcgtttgaca taaataatca tttaaattag gaatataagt atgcacgggc acttgagcaa 180
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gaaggtggtg ggaa 554

<210> 6548

<211> 454

<212> DNA

<213> Homo sapiens

<400> 6548

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aggattacag gcacgcacca cgacaccag ctaatttttt tatcttcttg tanagacagg 180

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 ccagcagttt gggaggccna ggtggcanat cacctgnggt caggagtcca agaccagcct 420
 gaccaatntg agaaacccca tnttctnaa aaaa 454

<210> 6549

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6549

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 gcgttgagaa agaagtgtgt tcggaaaagt tctccaaagc caccctgcct gccggaaagg 420
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 gnaaaaacct n 551

<210> 6550

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6550

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 ctggaaggtc aatcccgggc cgntgccacc tttcccgggc aggccanggg ccaacaggaa 540
 gtggtgaaag g 551

<210> 6551

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6551

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 tgtgccacca cgcccagcta atttttgcat tttcagtaga gatagggttt caccatgttg 180
 gccaggatgg tctcgatctc ctgacctcgt gatccgcctg cctcggcctc ccaaagtgct 240
 gggattacag gcgtgagcca ccgcacctgg cccgtcatac ctatttctaa attacacaaa 300
 ttaagaaaga aaatgatcag aaattaggtg cagtttaatt ctggtttcat aggaaaattg 360
 aaaactgggtt aaatatgatt cctgaacaaa atcatagaaa cttttattta ggagaagaat 420
 gactttatat gcgaaaagta gcattaaatc taatcttctt tccttttagag cccttctatg 480
 gtctcaancc cttttenttt atccacattt ctttaagagcn tagttcatac ccatnggctt 540
 tttaatttct t 551

<210> 6552

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6552

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attgcaacct ccattctccg agctcaagtg attctcctgc ctcaacctcc caagtagctg 120
ggattacagg caccatcac cacaccagc tagtttttg tacttttagt agagatggag 180
tttactatg ttggtcaggc tggctcctaaa ctctgacct caggcaatcc acctgcctca 240
gcttcccaaa gtgctgggat tacaggcgtg agccaccatg cctggccaat gttatttttc 300
atagaaatag aaaaagcaat cctaaaattt gtatagaacc aaaaaagagc ccaagtagcc 360
aaagcaatcc tgagcaaaaa cgacaaagct ggaggtatca cactacctga cttagaaata 420
tattaaaagg ctatagaaac ccaaaacagc atggnattgg tataaaaact aacacattga 480
tcaatgggac caaatngata atccaaaaat taatccncat attacagcca ctgattttga 540
caaaggcncc aa 552
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<210> 6553

<211> 410

<212> DNA

<213> Homo sapiens

<400> 6553

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tacaaagggtt ttctacaaat caataagaaa atacaaataa cctatattaa tcagaacaga 120
aactcaattc aattatctta aacaagaaag ggactttatt ggctcacaaa actttaaggt 180
ccggaggtag ggcaggcttt aggcacagct ggatctaggg cctccagaaa aatgacatca 240
gaacttagtt ctctttccat ttctgctagc atccgagttt ctctcagac agactctctc 300
cacatggcac aaattcaggc ttacatgggc cttggttcct gggatctcca taaagccttc 360
tttcagtag ttccagcana agttctgtta nngncttnc ctiancngg 410
```

<210> 6554

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6554

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actccaagcc tgggcaagat cctgtctgta taaaatttaa aaaattagcc gggcatggga 120
agctgcagtt agtcatgatt acaccactgc actctagcct gggacataga gtgagacctt 180
atctcaaaaa agaacctatt tatgtttatt aatatgcaac tgttttaatt actaaatgcc 240
cattatgtag ccataaaaaa ttagaatatg ctttatgctg tactggagca aattcgcaag 300
tactataatg acattttggg gtggggatag gacagtaagg tataaaaaatg gggtatatgg 360
taaacataac ccataaatgt taataaaaaa taaatgatta tttgggtaaa cataaaacaa 420
aacacaaata caaaacctaa aaagagggag actatgtgat atggntggct gngcttccac 480
cccaaactta tcatgcatgg aagtctcata accctatggg gcatggagga acccntggga 540
ggt 543
```

<210> 6555

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6555

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ccatacccca gtgacacctg gaaggccagc gacagaactg ttcactctcc tggaaaggga 60
actgaagcca gggagccaag tggatcagtg gatcccaccg ccacagagcc cagcaagcta 120
aaatccactg gcttgaaatt cttgctgcca gcacagcagt ctgaagtcga cctgggactc 180
ccaagcttgg tgtggggaga agcgtccacc attactgagg cttgagtagg tggttttccc 240
ctcacagtat aaacaaagct tctgggaagt tcgaattggg cagagccac cacagctctg 300
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caaagctgcc atagccagac tgcctctcta gattcctcct ctctggacag ggcatctctg 360
 aaagaaaggc agcagcccca gtcaggggct aacagataaa actcccacct ctctgggaca 420
 gangacctgg cggaagaagc cgcttgtggg tgcaacttta gcagacgtaa atggtinctg 480
 ctggcaactt ntgaagaaaa ccagcgaatn ttccagacag gactcaactt ttgttangga 540
 canctgcttc 550

<210> 6556

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6556

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 ccatatgagc cacttctcag ccaccatgtc ttcaaattca tcgacattga acttggtgaa 180
 gccccatttc tttgagaagt ggatcgtctg gcagccagag aacttgaact tggccctgtg 240
 cagggcctca atcacatgct ccttgttctg cagcttggtg cggacggaca tggtaacttg 300
 gccaatgtga cccctgacca cagtgccctg gggttttcca aaggcacctc gcatgcctgt 360
 ttgaagccta cattggggta atgcaaggtc agagacatga acatacatct gaaaggccta 420
 ttatcaaggc cccttagagc aacctatnga ggaaacaggc ttcatacacc accaaggaac 480
 tgctggttgc aanccttgga cactgggncc ccataaggaa aggaactcaa tcccttnaat 540
 ggctgnagag 550

<210> 6557

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6557

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 agaattctga gggcagttct tccatgattt ttcttagcca tttctgttgg gatgtatttt 180
 tttcttgtga gattgtcctt ttctcttcca catcctaggg tttcttttat ccaccgtgct 240
 gtgcgcttgg tggcctcttt ccgtcttggga aactcgtgac tttcaaactc agatgtcaga 300
 cctggagtgt cctcgtaacc tttttctttt cccggtttgt tatctttgag cttttgattt 360
 tgtctgatgc ttttcatctt caggagctct tttccactct cccactgtg ggccttcagg 420
 gtcaagttct gagtcacaag cgctttctct gaagtcccaa gccatagcca tgggtcatta 480
 ggangctttc tgnccacatc atggttctnt tggggggctt ggtccctcta agggcangaa 540
 gtccttggct catgccttaa 560

<210> 6558

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6558

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 aacctccacc tcccaggctc aagtgattct cctgcctcag cctcccagggt agctgggatt 120
 acagacgtgc gccactatgc ctggctaatt tttatatttt tagtanagat ggggtttcat 180
 tttgtcatgt tggccaggct ggtcttgaac ttctgatctc aagtaatccg cccgcctcgg 240
 cctcgcaaag tgctggaatt acagacatga gccactgcac ccggccatt tggatctttt 300
 tttcctaaaa ctttattttt cactttttat tcatctcagt gtaacttcat tatgtattct 360
 tgnatatata aaatcactca tatactaata aattaaagt gaaatcatcc ttacctggct 420
 ctgccatgga tcgagggttt ttctgnaaaa tcctaaaatc tgggagaatc ttctattaaa 480
 gnccttntc tataccnctt aacctntggg aangggctcc nttacctggg 530

<210> 6559

<211> 529

<212> DNA

<213> Homo sapiens

<400> 6559

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agatggggtc tcactctgtc aaccaggctg gaatgcagag gtgcgatctc ggctcactgc   60
aacctccgcc tcgggggctc cagcaatcct cccacctcag cctcccaagt agctgggacc  120
acaggcacac gccaccaggc caggttaatt tttgtatttt tggtagagac agtgttttgt  180
catgttgccc agactgggtg caaactcctg agctcaagtg atccgcctgc ctcagactcc  240
caaagtgtcg gctgggatta caggcatgag ccaccatgcc tggccttaat ttgtattttt  300
aactattcat ttgaccctct ccacccctga atacatgaaa ttttagaaga cagtgtcac  360
ttaactgata cagcactctt taatagtcta tctacaagtt tatgttaaac tgtgtttctt  420
caacaatgaa actgatttta ttttggtcca agtcaaaaca ctnaaataaa ttcttcatca  480
atttcttcna atcttcattt aagcnncnag cttntgagg cntttaagg                    529

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<210> 6560

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6560

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gagatggagt ttgcccagg ctccagcctt gtcgcccagg ctggagtgca atggcacaat   60
cttggtcac  tgcaaccacc acctcctggt ttcaagcaat tctcctacct tagccccgcc  120
ccgagtagct gggactacag gcgtgtgcca ctacacctgg cttttttttt taaattagag  180
acagggtttc accatttttg ccagtctggt cttgaactcc tgaactcaga tgatctgcct  240
gcctcagcct cccaaagtgt taggattata ggctgagcc accgtgcctg acctatatta  300
agacttttta taccagaaa cattatgcca ttacgttgaa taccacggtt ctgtctttca  360
agaagaaatt aagtcttctt tcaaccccat aagacaggat tgaaaaaaaa attagttttc  420
ttcaaaaagg attattaaat ttatttctca aaggttatta ttaaatttgg tcctcaaact  480
gngggctctg tataatggcc aganggtatt ttactctatt tgcattgcaa aacggttang  540

```

gtannnccaa

550

<210> 6561

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6561

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aaatagagat ggggtctcat tttgttgcca agactgggtca caaactcctg gcctcaagtg 60
atcctccccc ttcagccccc caaagtgctg gaattacagg cgtgggtccc catacccggc 120
ccagtttggt ttttaattta gaatttgccg tggaccaaca ggcagtcgta ttctccacaa 180
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tcccatggca gaagcttctg gaggaggaaa cagatttccc ttgccccttc agttgaagaa 420
tgaacatcag gaccagagct ttgacttgcc aatgactagg gtggcctggt ctaatggaaa 480
ctgagagcct ttatttctcg gctctgnttg cnaagctttg tcaaacccaa natgctntgc 540
aggtnggac 549
    
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<210> 6562

<211> 526

<212> DNA

<213> Homo sapiens

<400> 6562

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gtggagtgtg tgagagagat aattcttcaa attcccttta gtgcctccaa cttctcagtc 60
cgctgatttg ggaaacaaac tggactcaac atttttcacc ttccaattct ctagaggttc 120
tggttgacc ttctttcctt tggagcaatc ttcctgtgtg gggaggaaga aactggcaaa 180
accaccaag cttagttaac ttcccaagta accactagge tcaaagaaat ttcacctgtc 240
    
```


ccagccctgt caaacagggg actacacact gtcctctgt cttccctct ctgtgtcctg 300
 ctgctactat cttcctcact ctttaggaaa gcacaggctg aacaggaaaa tttctattaa 360
 gatacccaac aaggaggcta ccaatgagaa ggaataaaat gccactcttg gaggcacccc 420
 tatctctctg aatgaacctg tttangtgca gcatacactc atacngaaga aaaggaactg 480
 gctcgcanaa taagccctnc caattncnca aggcccaaan cggggc 526

<210> 6563

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6563

ggcttttgct ttctttattc agtcacgact acacgtcct atgtgactgt cctatggtac 60
 ttggggaccg ggcggtccac ctgcagcctg ggggaggaca tccctataat gaacatgctg 120
 cctgggcttc agggggccac tttggtggcc aagatggcat ccaggacacc cccaagtgc 180
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 cggcacagga cgtacagntt caacgcttgg gaagggggtc cctgaaaaaa gtcacctgct 480
 gcgaantgga tctgnactgg ctgnggnccc gggggttgga aanggcnggc c 531

<210> 6564

<211> 411

<212> DNA

<213> Homo sapiens

<400> 6564

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ttactgcatn taacaaaaca atgccttcaa ttaaaggggg aaagtgagtt tttaaacatt 120
 aggggttaat ttagaagaaa atacagtata taataatctc aacatcatgt ttagggtaaa 180
 aatgctataa tgtgaaaaaa gtcctaaga actggacaga acctaccta caacaccatt 240
 taccgtgtat gttttcaata gacaaaacat attttgtacc aaattccaac agtggttaatt 300
 ctatagtgtt ggccctttta aaaatggcag cattgtactt gaatcagaaa gcttactggg 360
 atttccatcat cgaaagtaga gattgcngnt aatcctagnn ccttnngnta g 411

<210> 6565

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6565

gagacagagt cttgctctgc tgctcaggct ggagtacaat ggtgcaatcc cagctcatca 60
 caacctccat tcaactgcaac ttctgcctcc tgggttccaa caattctccc acctcaacct 120
 cccgagtagt tgggattata ggagcgcatac accacaccct actaattttt gtattttttag 180
 tacagactag gttttgccgt gaaggctggg ctggctctga actcctgtcg tcaagtgatc 240
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 acgtaatat ggctgtggag tgttctgttg ataacctttg gacagattaa aggaagtcta 420
 ttctattcct cctttgccaa aagttttttt aatcattata gngctnaaat ttatcaaaat 480
 ggtgctgcac ttacttaat cnggtaaagg gttactttta cagaggttta ccttaattgg 540
 gaaacaantt gc 552

<210> 6566

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6566

| | |
|--|-----|
| gagatggagt ctcactgtgt tgcccagact ggagtacaac tatatgccta ggggcttaat | 60 |
| cagccctttg gatcttgaat catgatcgta ttgattttta gatgaatctg gggaagattg | 120 |
| atggacttaa atgagtccta ttatttatga cctgatatat ttgtttactt ttcttacatt | 180 |
| ttaaaaaaat catcaattat tttaaaaagt catcttctct ctttaaaaaa cctgccttct | 240 |
| aggcaggagc acttaagacc ttggggcaaat cgattcattc ctttttggcc agctttctca | 300 |
| tcatttaatt tggaataaca aaagtctgcc cctcccaccc agggttgctg ctgactcaga | 360 |
| ggagacctaa gagaggcgga gcgctgagaa gtcccgaac tggctctggg ccctgtgggg | 420 |
| tggtnatgg ggtcatctct aaggaggctt ggtgaattgg aaggggctga cctnaccttc | 480 |
| tgtcccgac aggcactttg gggncntgnc ctggctggnc ccagnaccng gatgagaccc | 540 |
| gaaa | 544 |

<210> 6567

<211> 515

<212> DNA

<213> Homo sapiens

<400> 6567

| | |
|---|-----|
| gagatggagt cttgctcttt cgtccagtc agactgcagt ggtcctatct tggctcactg | 60 |
| caagctccat ctcctgggtt cgcaccattc tcctgcctca gcctcccaag tagctgggac | 120 |
| tacaggcgcc tggctaattt tttgtatttt tagtagagac ggggtttcac tgtgttagcc | 180 |
| aggatgatct cgatctcctg gcctcgtgat ccaccacct tggcttccca aagtgtggg | 240 |
| attacaggcg tgagccacca cgcctggctg gtttgctctt tagagtaatg aaaatgtcct | 300 |
| aaaattgatg gcagtgatgg ttgcacaact ttgtaaatat attaaaaacc attgaattgt | 360 |
| actctttaaa taggtgactt gcatggcatg tgaattagaa gttcagtaaa gctggtctaa | 420 |
| aatctgggng ngnatatgga tatttaaaac cagcngaact tgnctttgca aaatttgaaa | 480 |
| tgnggataat tttaanagtt tcctttcttt ctttc | 515 |

<210> 6568

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6568

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tggcggcggc ggntgcacat gcatgcctgg ggaatgtgag tnttcagaca tgccaggcgt 420
ccagccttac caggaaacag gcncaacngg acccaggccc aacccttaaa acccttgctt 480
gatcccntgg gttaaccggg ggcccccggn accncggggg ttgcctttct taananactt 540
ggaccttggg gcceng 556
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<210> 6569

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6569

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aaacagaatg ttatctaata ggcactaacc cataacaaaa gcaacatctt agacagaacc 120
aagtcctccc agttaaaatg aaggctctca cttcctcct actaacattg tttcataata 180
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aattctagtt gatctgaaac gaactgaact accttgtaaa tagtaggcat tgatagtaga 420
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caggaatgta gatcagatat catgatcaga tntcatggca ngggttggag ggagaaactc 480
 ggttttgtac cngaaaggaa gaaacaaaaa tcagctncat taaaatgncc caatcccatg 540
 gttt 544

<210> 6570

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6570

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 actgcaacct ctgcctccca ggctcaagcg attctcctgc ctcagcctcc cgagtagctg 120
 ggattacagg caccgcgaac cgcaccggc taatttttgt atttttatta gagacagggt 180
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 agttaccata ggaccagca atttactcc taggtagtag gtttctctat gaaatcttcc 420
 aagataaaaa taaaagaaa aacnnaaga aaacttcatt tgctcttctc cggtcaccaa 480
 aataaaactc aaattcnta nctggcttgg cataccaggc ccctttataa ctaactttaa 540
 cctatctntn c 551

<210> 6571

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6571

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agctctgacc cgtagcggct gtggcacttg gggcatatga agcatcactt ttgacttccc 180
 tttattatta taattcttgc cactgaaaat agccactatt tagctgaatt atccattaga 240
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 caccagaaaa aaatggtggc aggaatggtg agggagagga ggaatctctt gagttagagc 360
 ctcaggtctg aaaaggcaac tggtaggata atcccattcc ctctcagaag cttctgaagt 420
 ggaagaaaaa caagcaaatc ctaaagcaag taactttatt atcattcctt taaaaagaac 480
 cnagggaaaa ttcccaccta tgtgaacacc aacnggttgg gggttaagga ggtaaccaan 540
 gggccccctt t 551

<210> 6572

<211> 538

<212> DNA

<213> Homo sapiens

<400> 6572

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 tccgcccacc tcagcatccc aaagtgtggg attacaggca cgaggcactg tgctggccaa 120
 ctctctttct ctctctcttt taatctcttt attatggaaa ttcagaaact atacacaacc 180
 cagaatagtc tatgaactcc ctaaagactc atcaaccagc ttcaacaatg atcatctttc 240
 tgcccatctc attcctctcc tttttttttt tttttttttt tgagatggag tctcgctttg 300
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 acaagcgatt ctctgcctc agcctcccga gtagctggga ttacaggcgc atgccccctg 420
 gccagctaa ttttttgat tttttttaag tagaaacggg gtttcacat gcgggccaag 480
 ctggncttga ctccnggcct ttgactggca gcttggctct aaaggggctg ggatacag 538

<210> 6573

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6573

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acccggaac acaggagcaa ctctgtacac ttctagaaac tcacagctag ctccaaaaca 120
atagaaattt taaactacaa aagatgagtt gtattcagca aatataaagg gtaatttttag 180
actgtgtgaa cgtttatcag actattttaca gcacccggga gacgggttca gatctcgccg 240
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ctggagaacc cctggttgca gctaccgaag gagtcagagt agttacttgn atttcgcact 420
tcggtcccgg gaagcccgac gatgtccccg gctgtggctt cnggaacngn tgcggtggcn 480
ccgatgctat ctngggaccg gganccgggc aaatttcggc gnttttcggg aggaaaactt 540
g 541
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<210> 6574

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6574

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ccgtgggatg tatttttta tgagaacaca ttgttatact ctgagtacgt ggcattcttg 60
cttgatagaa acatttacia ggacacatac acattttatat ccaaacaatca aatgaagtag 120
atatttttaa tgaccagttc gcacaagaaa taaaatatat tatacaaaac atgggttata 180
tccacagtca ttagttctcc ttttctacac aaaacagcaa taaattaaat cacattatat 240
gcaaatagtt agttgtacat tagaacaata aacagtatgt aacgtgtgca gcttttactt 300
ttacttttct accagactca tgatagattt gtactgtttg gtagtcctgt atttaaata 360
acaatgaata atgtgacca gaagacaggg gtcacagaat tggctctgtca caaggtctat 420
cccatgtcct ctgggtttca attatccacc atgcacaggg aacaaagctc agattcccag 480
gaccaaacac aaaggtctgc aacgaacaaa ctccaggaac tcctgctggt caagggtctac 540
tttat 545
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<210> 6575

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6575

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acaacacggt gaaacatgaa accccacctc tactaaaaat aaaaaaatta gccagatgtg 180
gtggcgggca cctgtaatcc cagctacttg tgaggctgag gcaggagaat ctcttgaacc 240
cgggaggcgg aggttgcagt gagccaagat cgcgccatcg cactccagcc tgggtgacag 300
agcaagactg tctcaaaaaa aaaaaaaaaa aaaaaaacca aaaaccaaaa aacattccac 360
tggctcatga caaacgaaga ttcccagtga gcccttccag aaccacagac tccgcaggac 420
agggtttctt tttgtgaggg gctgtcctgc gcactgtggg atgttcaaca gcaccctgcc 480
agtacacaag ccccaggtnt gacaaccgga aaatgtctnc agaaatcgcc aaatnaancc 540
tgggtgggna 550
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<210> 6576

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6576

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aaagacccac gcgaagagct gagggaaaac tgtcagggca aaaggaacat actggtgaat 60
taaaggaaca gaatgaagac atgtatggct ggaagaaaag gagaaagagt gaagcgtgat 120
gggtgggaag ggaaacaaga gtcaaattgt gtaaggtttg taggccacat aatgacttta 180
cattttatac tggatatgaga atgggaagct gggtttggag caagggtgga acttggatatg 240
atttatattt ttatcagatc actctggctg tgctgtagag aactgattgt aggagaccaa 300
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tagtgaaagg agggagacta gtttagaggc ttattacagt tagcaggtag aggttgcagt 360
 ggcttggctc agactattaa atantggaag tagaagaaaa ggtcacattt aggacatttt 420
 agaagtacag ctgacaggac ttcttgatga actaggtgta aagtatgang gaaagagaag 480
 tccagaatga ctncagngg ctggctgtac tgtggaangg agatgaatat tntagccct 540
 tgaa 544

<210> 6577

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6577

agcttctgtg aacaacactg ctataaacat tctcataaac atcttttggg gaacatatat 60
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 tgcagccagc ttccaattt accctattta cccttagggg atgaaagtct gagttactcc 180
 acatccttgc tatcacttga tattgngtat ctttttcatt ttgtctatgt tgctctatgt 240
 gtagtagtat tctatgggtg ttttgaagtt ccctaagac taatgaagtt gagcaccttt 300
 tcttatgttt actgattatt taggtatcct ctattgtgaa tgtctgttca agtctttctc 360
 ccattttcct actgggaaat ctgatttttt ggtttttttg gtttttttga gacggcgtct 420
 tgctctgnca ctcantcagg ctggagtga atgggccgat ctcgntcgg tgcaactctg 480
 ncttccggg cagcccatct gntggctaaa cctcccggan ntgggctatn gg 532

<210> 6578

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6578

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ccagagggga accaagttat gttataccat ttacaaaata ccaaggagtc cacagctacc 120
 taacacattt actacagcac aggaaccaat gaaggtacag tgtacaaaaa actgtaaaca 180
 cggcacaata aatagataaa acagcaggtt ccgcaccatg cacatgatgt gatgacactt 240
 catctgctgt attcttaatt tacagatggt gatttttttt cctattaaca gtaagaaaag 300
 aaaaattgaa gcatgagaga tgagcattgc tgtcaagtcc ccacagctgc cacagaaacg 360
 catgtgctgc tttccatcat cccttgnatt caaaatgcta ctgatgcata gcacctaate 420
 aaggtcccca ggcttnagtt tcaactcgga ggaagctncc gtaccttcat tggttctggg 480
 gtggctggta ttgtggtaaa tgcttgnatt tctggatcaa ggatttncct tggactggat 540
 ttccnaggat gaaaatgggc ctt 563

<210> 6579

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6579

cataaaaatg aatttttaatt ttcatgagca taaaaaaaaa aaacccaaac ctgtcccata 60
 cccctcccac tcatgcaaac agntntcaaa tganattctt caaattttac gttttttcca 120
 ttctggctca ttctttgctt cctcatcatc agattcaact tgggcaaaca tggttttggg 180
 ctgagtcttg gaatatgctg ganaaaccca atatgggctg tcttctgctg ctttggcatg 240
 acncaaaaang gnttcccagag gattactgtc atcggctctg tccaaagcaa tgttcttcac 300
 aatataggaa gagagagtgc ccccgtaggt tccaactcgg ccaccacgac ctgggcctgc 360
 tacaggaggt tcaggtttat gcgacttcag gggaaccag tctgnccttn ttcagctggt 420
 tccttggact ccgttggcng gggcttacgg acatagcaag gcttgagggt gangaatgaa 480
 nccctggagt taaagcctaa cttggtttgg cttccgtn gttttaaccn ccataaatt 540
 tggctcccct ttgacttt 559

<210> 6580

<211> 491

<212> DNA

<213> Homo sapiens

<400> 6580

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atcttcactt aattgcatca caagtaacaa gaatgaaaaa ggccacagtt catatatattt 60
caccattaca tatgtctata atacttgaaa tgagtatggc aaaaccagca ctgcacaaag 120
atgagtccac ttcaagtccc atgagaaaga gcatgtctct aaagaaaaac aaacaaaacc 180
aaagcaaaat aaaaagagag gcctaaaggc cttggtgccc cattgtgttg gaattcatca 240
tattccatct tgactttttt gcttccagtc agccagcaga ctaaattttt gtgcttgttt 300
atgctgaaat tgattcaatc ctgactcaag ttcacttttg gacacagatc atattctgcc 360
tgttggatgc aaaagatgaa aatcctctta acttccaagt cttggntcga ctncctncca 420
nttncccacc cttatcaaaa tcaggatcnc caattaaaaa aaaaaaatn gaaattggga 480
aaaggggaaa a 491

```

<210> 6581

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6581

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aagagataag gtcttagggt cttgcctgtt cacctggagt gtagcggcaa catcacagct 60
cactgcagcc ttgaactcct gggctcaatg gatcctccca ccttaggctt gcaagtagct 120
aggactacag gcatgtggca tcacacctgg ctaatttttt ttttaatttta tttttgtaga 180
gacaggtctt tgttatgttg tccaggtctt ctactttttt ctcttttttt ttccccccac 240
cccagatgg agtctctctc tgtctccaag gctggagtgc agtggcacga tcctgagatc 300
ctggcttact gcaatctctg cctccagggc tcaagtgatc ctcccacctt ggcctcctga 360
atagctgata caggtgcagc ggggtgccacc acgcctggct aattttttgn atttttggta 420
gagatgggat ttcgccatgt tgatccacct gcctcagctt ccaaagtgct aggattacaa 480
gcataagcca cacacctgn ctctttcatg gatcttctaa ntaccctaa cagtnccaat 540

```

nttaaagagg gtttttgg

558

<210> 6582

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6582

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gctctttatg taaagtctga ggtcaaggca aggtcacaga tatacagtaa ttgaacttat   60
agttttgctt tctccagcta gtactgaaaa tttataaaca tcttattaag gcacttaagt  120
tactttaagt tccttaataa gatagttttg tacaattatt tttgtagcct ctccaaaagt  180
gacaagtcac tgacatgtaa aaaagtagtt aatatacgct ctccagagtc atacgcatga  240
gattctctta agatccgttt gttctgcata atattaaaaa ttacgtatca aatccagaaa  300
atgaagagga catattagat tctgaaatag taaattcctt ttagttccca actcagatca  360
aatctgagca ggacataaaa aatacaatga aaagttaa ataggctctat taatgattaa  420
aagggtncat agtcccagta tgaattctaa gttggtaa atctggccactt tanggaaggg  480
aaatagttcc taaaaacca acccnttaac cgaccagggc caggttttca aacccaaatg  540
ctacttcata ccatttaagg atctcaatat cc                                   572
    
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<210> 6583

<211> 523

<212> DNA

<213> Homo sapiens

<400> 6583

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gagacaagag tctcgctctt ttttaccag gctggaatgc agtggtgcaa tccccactca   60
ctgcaacctc cgctcccaa gttcaatcga ttcttctgct tcagcctccc aagtagctgg  120
gattacaggc atgcgccacc acacctggct aatttttgta tttttagtag agatgggggtt  180
tcaccatgtt ggctaggctg gtctcgaact tctgacctca agtgatccag ctgccttggt  240
    
```

ctccaaagtg ctgggattac aggtgtcagc caccacaccc agcccatcc atactttcta 300
 acagaacctg ngttttattg aaagtatctc ttctcatcaa catccacacc tcgaaaacct 360
 ggctgntggc tgggataaan tttataaggg taggctcaag cttcttgaaa ggaactgggt 420
 taaagggcat gaaggcactt ntggngaagc aaccacagaa anggattana agacctnggn 480
 aaaggtttcc atactcctta cagaacttga ccngaccgag aac 523

<210> 6584

<211> 480

<212> DNA

<213> Homo sapiens

<400> 6584

gagacagagt cttgcctaag ctggctttga actcctggcc tcaagcgatc cttccaccca 60
 gaggctggg attacaggca tgggccactg cacctagcct ntagcaagtc atttaatacac 120
 tctgtacatc agtttcctta tccataaaat gggaataata atatctcata gagttgtttt 180
 gaggatttaa ataaaaatat ttaataacta taaatatcat tgtccagaca caatgncatt 240
 tagcttttct cctatgtttt cttccagtag tttaacagtt tcaggtctta tgctgaagat 300
 gttaatccaa ttgatttga tttttaggt ggtgtgagg taagggttcg atttccctct 360
 tttgcatatg gatatccaat tttccaaaca ccatttattg aagacactgg cctttcctac 420
 nggatattct ngaaccattg gtggaanac aattgncnc agtgcattgg tctcttngg 480

<210> 6585

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6585

atgaaaaaaa gttgtgaaaa tttatttagg ctgattttag tgtaacattg tttttataa 60
 aataatttta taaaagagtc catcaagata ttatatagaa aatgcacact aaggtaatat 120

atatacactt cataaaaaata gaatacatct tggcaattgc ttagagtcta ttaccacat 180
gtacagtgtg ttgacgtgta atatittatgt taatttgaac acatgagatt tttaaaaaac 240
caaacctgtc ccactggtat ctttaaaaaat tgctttcatt gacaggaaaa taaacaaaat 300
tctggaaccg taaaagttat gaagctaact ggatgaaagt ttatattaaa atttttaaag 360
ttccatgcca tgtacaactg acgtgagggc aaagcagtct tttttattat tattatcata 420
agnggtcagc tgatctcaca aaatcactga aaataatata ctggtctgaa ngccaatca 480
ngataagccc cattnggat caaacaagcc tttagnact ggnccatatt tggaaaanga 540
gggggggttc tcttnaaaag 560

<210> 6586

<211> 509

<212> DNA

<213> Homo sapiens

<400> 6586

gctttaagtt atgggataca tgtgcacaat gtgcaggttt gttacacagg tatacatgtg 60
tcatggtagt ttgctacacc catcaccctg agttctgtta taatattatg ggactcccaa 120
aatacatgtg gtcttatctt tggccaaaat gttgtcatgc agtataccat tttagataca 180
tcaagaatct tttgcctggg tgtgtggctc atgcctgtaa ccccagcact ttgggaggcc 240
gaggtgggtg gatcacctga ggtaaggagt tcaagatcag cctggccaac atggtgaaaa 300
cctacctcta ctaataatac aaaaaattag ccagatgtga tggctcatgc ctgtaatctc 360
agctactcgg aaggctgagg cacaagaatc gctgaaccca ggaggtggag gttgcantaa 420
gccaagatca caccactgg actccaatct ggggcaacag aancgagact ccgnntaaaa 480
aaaggaaaaa acntntgcca tacttnaaa 509

<210> 6587

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6587

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agctcatcag ctatcattcg tgtttagcgta ttttacgtgt ggcccaagac aattcttctt 60
cttccaatgt ggcccaggga agccaaaaga ttggatagca ctgccctaga ctatcagcca 120
cgccgctctg gctctcactt cccacttccc cagggcctgg ctcaatattt ttttaaaagt 180
atggtataaa tgaataactg atctcttggt ctgtctgctt taatcatgtg actgagtgc 240
aaaaaacaat taccactta aaaacacaga gatgcaagtg aatcctttgc cataacaatg 300
agcccactct ttatcaatac cctgtttgtgc caaacaggta gagaggtttt aaaaagagt 360
caagtatccc aactcatatt aaatttcccc atattctcca tattttaaaa gcactgggtt 420
aancatgggt gatgcccttt aagaattccg naccaaaagg attttcaa tccaatggca 480
tggaatttca tcggtaat tnaatgggcc aatnttaaag gtcacattaa cccgacaaag 540
cattttaact tctganttgc anggncgctt gggt 575

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<210> 6588

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6588

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ggtagagatg tgagtctctc tatattgccc aggctggtct tgaactcctg ggatcaagt 60
atcctcccac cttgtgtttt taacgggttt ggcacatgca tcccggtgca ctgtaagagc 120
ctagcaaata gaaagtgtta ctggaatcat ttagtgtgaa atcttacagc acccactcta 180
ataccagctc caagaagagg gggatgtgca cctactttgt gctgtgggg atcccaagt 240
tccagaacaa tgcctggcac atgtagacgt ttaataaata cttgcataca tgaatgaatc 300
ctctatgtgg cagattttta aacaccgcan gaaagacagc tcagactcct ccccgacca 360
gcagaaagtt tacctttcan ggtagctaca gcctnttcca cttgaccang aaggaaagcc 420
ccgctttcac gtcttttaaa agtaacccaa tcggcttggc ttgccgngga agtccttntt 480
aaggctttta caaanctttc aacttgcttg nggaaccang gccccagcc cataagcttg 540
acaccaaggc cttacaaagg aaaaggang gcccattnc t 581

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<210> 6589

<211> 394

<212> DNA

<213> Homo sapiens

<400> 6589

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aacctaaatc catccattta ttccttcagc caacattttc tgggattcct tgtgtgctag   60
gcctcgtgcc accatctgga gatgcagaga ggcgggagac ccatgtggcc tttgaggggc  120
tttcaggctc gtgggggttc aggcacagac accaccaatc tgaaccaggg gactgcagga  180
tgctgggtta ggggagagag gggtaggctg gctggcctag ggggtcctca ggaagtcttt  240
gggggtaagg agagaactcc tgaaaggtaa ggagaagccg agggctaagt tacatttcga  300
gtggatggga aggggtgtgg actgactggg ctcctactca ctattgggga ctngtatgc  360
tggcctggcc ttanagnctt cananncagn taca                                394
    
```

<210> 6590

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6590

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gagacggagt ctcattctgt cgcccaggct ggagtgcagt ggcacggtct cagctcactg   60
caacctccgc ctcctgggct taagcgattc tcatgcctca gcttctggag tagctgggat  120
tacaggcacc caccagcacg cccagctact ttttgtatct ttagtacaga tggngtttca  180
ctatattgtc caggctggtc tcgaactcct ggcctcaaat gatccacca cctcggcctc  240
cgaaagtgcg tgagccactg cgcccagcca ccaacacttc ttccaatcat ctcaccacaa  300
tcctaattgct cattaaattg gaaggacgga gagaataaag ttcatcccca gccttctaga  360
acagagttcc aaattgctgg cctagggcca aatgtaaccc acagatatgc tttgnctgcc  420
tacactggtt tagaagattt tgagttcatg accgattttt aaaattggga acatttaaca  480
    
```


taaaaatnca tatggttnaa gtttaccaaa actcanagga ttggcccaag tggncaccagg 540
ggactggact naaaaatgg 559

<210> 6591

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6591

ctgagtcgtt ctcgctatgt tgaccaagct ggtctcaaac tcttggaact aaacaatcct 60
ccgctttggc ctcccaaagt gccaggatta caggcatgag tccctgtgcc cagcctgata 120
tggtttggat ttgtgttctt gcccacatct catgttgaat tataaccccc aatgttggag 180
gacaggcctg gtgggaagtg attggatcgt gggggcaaac ttcccccttg ctgttcttgt 240
gatggtgagt tctcatgaga tctggttgtt taaaagtgtg tagcacctcc cccttctctc 300
tcttctcct gcttcagcca tgcaggctgt gtctgtctcc cattcacctt ctgcatgat 360
tgtaagtttc ctgaggcctc tgcaaccatg ctctctatat gacctgaaga tccatcagcc 420
aattaagcct attttcttta tgaattaccc agcttangta gntctttatn ccgaaaagag 480
ggntaattga cttacaagtt ctggataatg tgggaggccc aggaaactta aaacctggng 540
gaaggcaang ggaancangg cccct 565

<210> 6592

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6592

ggatttttag tagagacggg gcctctccat gttggccagg ctggtcttga atgcccagacc 60
ccaggtgac cgccacctc ggcctcccaa agtgctggga ccacaggcgt gggccactgc 120
gcctggcgtc attatcattt taacattgct gctgtatttt ccctttagg gacaaataat 180

atgactatTT tccacctcct tgctccaaat catcagcata aatagcaaac tattcaagga 240
 ggacagactt ggcaaggaaa attccaggct agctattatg gcctgacagg ttcattcatcc 300
 ctcttaatat atgaaagtac gaagtgccaa aacaatgttt aattcaaaaa tcatttatct 360
 tggctttata aaggaggaaa aacttgagtc agacacacat ctaagcacga atttgacac 420
 aatttctncc tggttttggt tgacatgggc ttacatgaac cccaaggagc cacttttcag 480
 gccagaagac ngatgatcaa gggcttntaa ccagganaag cttttttcca agggtnccaa 540
 agcacttttc anttacttga ccgggaaaac aattt 575

<210> 6593

<211> 481

<212> DNA

<213> Homo sapiens

<400> 6593

ganacggagt ctgtctntgt caccaggct ggactgcagc agtacgatat gggctcactg 60
 caacctntgc tccccagggt caagtaattc tctgcctna ccctgccggg tacctgggat 120
 tacaggcatg tgccaccacg cccagctaatt tttgggttt ttaatanagg gggggtttca 180
 ccatgtcgac caggctggtc ttaaactcct gacctcaagn gatccacca cctcagnttc 240
 ccaaangct gggattacag gcttgagcca ctgngcctgg ccagcatagc tttcttaang 300
 cattcatgaa gctgcaatgn ataattgnct tgagataaca ttggatgtta atactacagc 360
 aaattttgcc atgtanacca cacatttatt aaaagggatc tcattcttta gnattctccc 420
 ggacttntnc ccatnccaaa gtingccttc attttgaatt gaaggtangg attaatingc 480
 t 481

<210> 6594

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6594

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gaggcagggt cttccctctg ctgacaggct ggagtgcagt gatgtaatca tggctcacta 60
cagccttgac ccccagagct ccagtgatcc agtgatctat ctcagtctgc cgagtagctg 120
agaccacagg cacattccac cagctgacaa aaattagccg ggcgtgggtg cgggcacctg 180
tagtcccagc tacttggagg ctgaggcagg agaatggcgt gaaccagga ggcggagctt 240
gcagtgagcc aagattgccc tactgcactc cagcctgcgt aacagagcga cactctgtct 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aangaagaag aggaagactg tncagactac 360
tagagattat ggcaacctct ttctcaatct tggtttcttg gtttttggtt ggtatttgng 420
gagatgggat ctcactttgg tgcccacctg ggctnaaact cctgggcttc aagngggcct 480
tccaccttaa ncttcccata nggctggaaa tacnggcntg aaccccccat ggcctgggct 540
ggaanccttt tttttttttt tttggnaaag gagtn 575
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<210> 6595

<211> 514

<212> DNA

<213> Homo sapiens

<400> 6595

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gaaatggggc cttactgtgt ctcccaggct ggagtgcagt ggcatgatca cggctccctg 60
cagcctcgac ctcttgggct caagtgatcc tccacctca gcctcccgag tagctgggac 120
taaaggtagg tgtcaccaca cccagctaat tttttttttt aagtagaagc ttactttctg 180
aggtgttaaa ttctaggttt ctattattca aatggcaatg ttaagcaggc tggatgaatat 240
ttccgttttg agttcattgg ggaaatatga aaaataacat gtgaagtaat cctttgtaaa 300
cagaaaaatc tcaattctat tagaatttat tccttcagca aatatttatt gggcacctac 360
tgngtgtcag gcactgtact ggggtgctggg gtagaatcat gatgaatttg gataggaaca 420
gttacgacct tcatggagtt tcattacaat ttaantagnt canccgntt ctggagacct 480
ttttttgagt actgggnaaa tatnttgaan ccac 514
```

<210> 6596

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6596

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gggattttgt tgttttattt tattttattt ttttttgag acagagtgtg gctgttgccc 60
aggctggact gcaggggcat gatatcagct cactgcatcc tccacctccc ggattcgggt 120
gatcatcctg tctcagcctc ctgagcagct gcaatgacag gtgcacgcca ccgcatctgg 180
ctaattctttt tgtattttta gtagagacaa ggtttcacca ggttggccag gctgggtcatg 240
aatticcaac ctccagtaat ccacccgcct cagcctccca aagtgtgtga attacaggcg 300
taagccaccg caccgcgcct agatgttggt gtttagaaat gcccccccag accgggcgcg 360
gtggctcaca aggtcaggag attgagacca ttctggccaa catgggcgaa accccatctc 420
tactaaaaat gcaaaaatta gctgggcgcg gtggcacntg cctgtaatcc caagntactc 480
ggaagcttag gcngganaat cgntcgacca gggagtcana agttgcaatg aacctgaaat 540
gn 542

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<210> 6597

<211> 568

<212> DNA

<213> Homo sapiens

<400> 6597

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gtgagacaga gtctcgctct gttgcccagg ctggagtgca gtggtacgat cttggctcac 60
tgcaagctcc acctcccggg ttaccccat tctcctgcct cagcctcccg agtagctggg 120
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cccaaagtgc tgggattaca ggtgtgagtc accgtgcccg gccctgttta tgttttaaga 300
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tccaaattaa agctggtgta gcctaacatt cttttcagtt tctttgactt caaaatgctg 420

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aaccacatca acatgtttga aaccatgcac tattatTTTT tggataaaat ggtcagacaa 480
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<210> 6598

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6598

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 ttacaggcat gcgccacat gccagctaa ttttgnattt tttagtagag acgggtttct 180
 ccatgtttggt caggctggtc tcaaactccc gacctcaggn gatccgcccg cctcggcctc 240
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 ccctacacta agcctttcag gcaggctaaa tccacagcgt tcccatcacc aaagctgtca 360
 aagaagcaaa gtagccatga tgcacctgng cttcaaagcc attcattcat tcattcattc 420
 attcattcat tcattcattc atttaacaca aggggttcan ttccttgcc ttttttctt 480
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<210> 6599

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6599

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 cgaaaaaatt aagagatttg aaggcttgat cttctattta cttcaagatg acagaagagt 360
 aggtttcttg tgatgaaata ctacaagaat gaagaattaa caaactgggtg ngtaattcat 420
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<210> 6600

<211> 529

<212> DNA

<213> Homo sapiens

<400> 6600

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 tgctatgtta cccaggctgg tcttgaactc ctagcctcaa agtgatcctc ttgccttggc 240
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 aattaacttt gaattattgc ttttctgttt tctgcctcat taatttcctt tatctttttt 360
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 gntttaaata tatctcaaaa atctganggg atgaaggtta atatcaacg 529

<210> 6601

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6601

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ggggggnttt ctatctctga aactatgcaa gttaggaaac cccttggaatn aaaagctncc 480
aatcncaatt cttaccact ggtttactac cctttaaga ataaactt 528

<210> 6602

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6602

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aactacaggt gtgcgccacc gcaaccagct aattttaaaa aaaaattttt tttgtggaga 180
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cgccttggca tcccaaagtg cggggattac aggcattgagc gattgtgccc tgaaattttt 300
ctgattttac taagcacttc ctaccgcaa tttgcagttt ctcttcctcc acctcctgct 360
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anggtcttca ccatggtgtg gctgccttgg ggagacactg cttnaaagcc ctggcttggg 480
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<210> 6603

<211> 527

<212> DNA

<213> Homo sapiens

<400> 6603

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cccaggtagc tgggactaca ggtgcccacc accacccccg gctaattttt tgtattttta   180
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accctcctgg gcctcccaaa gtgctgggat tacaggcgtg agccaccgtg cccggcctga   300
aatagacagg tacttttate tctatttcac agtccaagca gctgacagag aactgttaaa   360
ggacttgtcc aagatctcta agctagttag aggcagacag aggcaaatta gagagaaaat   420
ctcaagtagt tttctcttaa ctttttgctt ttcctaacaa ccaatgctca ataagaggaa   480
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<210> 6604

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6604

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actggagaaa catttcact tgtgtattga aaagaataaa atcattattt aaacactcta   180
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tctcctatca tatacgtcaa tacgcatatt acaatggttg ggcacatgag tatagggtct   300
ctatatctaa aactttgact taaagttaac caactatttc tcaaatcctt aaaataattt   360
tcgtggataa tttttcaata gccttataag gcatacaagc ataactggct acaaaaaagt   420
gtatatgtaa agggagttaa tggccttgct taattaaaat gnaaaacttt agcatcttaa   480
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<210> 6605

<211> 499

<212> DNA

<213> Homo sapiens

<400> 6605

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acaggcgacc tccaccacac ctggctaatt tttgtatatt ttagtacaga cagagtttca  180
ccgtgttagt cagtattgtc tcaatctcct gaccatgtga tccgcccgcc tcagcctccc  240
aaagtgctgg aattacaggc gtgagccacc acgcccagcc aggtagttct ttatagcagt  300
gtgagaacag gctcatgcag gtctgggtgga aggtgattgg atcatgggtg ctgtttctca  360
tggtttaaga gcatccccct tgatactgtc atcatgatag tgaattcttg ngagatcttg  420
ntgnctaaaa gtgtgtggta ccttccccat ctttttatg gncctgnttc taccatggna  480
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<210> 6606

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6606

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tatgtgcagg cagtgttcta tgtacttttag gtatattaac taatttaatc attcaacaac  180
cccatgaggc tggcattgtt cattgatttt aatgagaaag ctaagagagg aaataagtag  240
cctttcaaag gtcacacaga agtaagtgac agatccagga ttcatatcca agcattcttg  300
ctctagtgtc catgtttctc aaccattatg acccaatatt caaccaaac aatactgaag  360
gacacgtgaa atgtatccgg tattttacta ttacaaacaa aaatccaatg aacattcttg  420

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aagacatacn caaaaataat ggntcaatag aagttactgg aattgnaatt ttgggtcaac 480
 ctatattnaa atgnaaggct tttggaatag ctaaatagaa ttttgaaatg gacagnnta 540
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<210> 6607

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6607

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 tctataaatt ggggtgtgcag caaggacaca gcaaaaacaa aacagatatc ctttactccc 180
 taaaaacaac aaaattatga tgtaccacaaa atagaaaaat ctcactctat aactgattc 240
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 atgaataact aatttggatt caacatggac actttacata aacttttata cttggtatta 420
 gagatTTTTT ttcttgggct ccatacagat tctaaatgct gacttccaca ttaccaaag 480
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<210> 6608

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6608

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caaacacaag catgtgccac catgcccagc taatTTTTTT taaaatTTTT tgttgagatg 180
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tcagcctccc ggagtgtggt gatttcaggt gtgagccact gcatgcatcc ctttagtggt 300
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tctaagttag aaatgtgtac ctttttcaca agattttaga ttgatttgaa attgaggatt 420
ttatcttata atttctctt aacagccctt ggganaagca ggttttgctt ggtgaagcca 480
anggagagag aaccgaaccc ngacacttna ggtcatcctt natttgggga ttaccnggnc 540
cgatt 545

<210> 6609

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6609

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tgagaaatgg gaatgtggnc tggaatgggg tcaatgtccc cgcctgnggg tggcttactt 540
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<210> 6610

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6610

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aacattatta atcttcctga ctaggcgtaa gtgagtgagg agggctattg aaaaggagct 180
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ctctcacgtg ctggaggctt cctgccttaa attaacgctg naccttttnc ctaatggttt 480
cagtagaccc aacaaaaagt ttggagaant tgagccaatg actccaccgn ggggcccg 539

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<210> 6611

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6611

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aattggcaca cagccatgcc cctcatttac atattgtccg aggctgcttt tgcactgcag 420
tggcagaatt gagtcgttgc atcggagacc acgtggccac acaggctaaa atatttacca 480
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<210> 6612

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6612

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tacagggtgca tgccaccaca cctagctaata tttttttttt ttttttttagt agaaacaggg  180
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gcctcctaaa gtgctgggat tacagggtgtg aactgctgca cccagcctac tatacttttt  300
cttgngtatt ttcctcgtgg tttccatgag ataaacaact ttttatttgc tcaatttttt  360
tttttttttt tttttaanat agagtcttgc tctgtcacc aggctagaat gcaatgggtgt  420
gatcttggt tactgnaatc tccgccttct gggttcaagc gcttttctgg ctaaccttct  480
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<210> 6613

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6613

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cctgtgtttt aaatatTTTT aaaggactct tttcatcaga gtattcttcc ttgagggaag  180
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tctcccacgc cccatagacc cggcacctgt taataactgg gcccggtgcc tnacctgaaa  420

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actgggggtc acacggcctg tctgaaaaac cctgatgtga taaacaccnc agagcancat 480
 tacattttcc tattgccna ctgggttaaa gaaacncttt gggaaaaaat ggggaancct 540
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<210> 6614

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6614

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 accaaaaggg gtacttaaga cctttggcan ganaatggcn tgaacccgga gggggacctt 540
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<210> 6615

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6615

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tacaggcgcc cgccaccacg cccagctaata tttttgtatt ttttagtagag acagggtttc 180
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<210> 6616

<211> 501

<212> DNA

<213> Homo sapiens

<400> 6616

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<210> 6617

<211> 507

<212> DNA

<213> Homo sapiens

<400> 6617

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gtattccatg gcttatatgt gccacatttt ctttatccag tctggcatcg atggacattt 420
gggtatgatt aanangctga ngagtttctg naataagatt ctttncctgg nccctttctt 480
acagacttaa atgctagaag tncatat 507
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<210> 6618

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6618

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cttggaatt ggaaaatacn tntaagnntc ttaccgatgc aaaaaaagt ttaagnccc 540
attc 544
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<210> 6619

<211> 322

<212> DNA

<213> Homo sapiens

<400> 6619

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cagcctcaac ctcaggtggt tttttttttt tttttttttt ttttttttag ttgggtgaat 120
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ctctgtcact cagtctggag tgcagtgaca tgatcatggc tcactgcagc ctcaacctca 240
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catntnagnt cantgnaacc tn 322
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<210> 6620

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6620

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ccctcgtcta gccctgggcc cctgtcccca aggccagctc gctgagcctg cgctcctcct 180
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gctcctgggc cagctgccac tgtttctcct ccagattcaa ttccctgcacc gngatcatga 360
actcggncn ctcagcacca agctgntggt cttgtcaacg agctgtanca actgnctacc 420
cataagtctt ttttgctggt ctgggggaact gnttttggcg ccttaanggc agttcaagtt 480
taacgccctt gggcttanct tcctnaaggn agcctcaatc taattaance cccttggang 540
gctggg 546
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<210> 6621

<211> 487

<212> DNA

<213> Homo sapiens

<400> 6621

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agttgagacg gggtttcacc atgttgggtca ggctgggtctc aaactcctga ccttaggtga    60
tccacccgcc tcggcctctc aaagtgctgg gattacaggc atgagccacc acacctggcc    120
tcaagactta ctttaaatta aaataacagg agagaattat agaatgacaa tcaccaagga    180
ttctaaaagt ctacataacc ataagcacia ttgttcacag agcatctaga cccgatctca    240
gtaagaaaca atgaaagcac tgacttggca ccaacacgag actgaaaaac cagaccacag    300
gcttctctta aacatcaaca tggccttggg agtgggcagt ggagggacgc ggaaaattta    360
tagcctccta aaaagatccc gtctgctttc ttaaattctt cacctcgctt atttccttan    420
tgctngctc atcaaaaagc ncaaattaaa tcctantcag ggcatccagg tttagaaaaa    480
ntntntg                                           487
    
```

<210> 6622

<211> 494

<212> DNA

<213> Homo sapiens

<400> 6622

```

gctgntgtta ctggggaact tnttgcata naatatttgc atatatgaat ctccagtncc    60
aagcatacnc caaaaatggg tncatttcan atgaaggaca taacanagcc ctaataaaat    120
acanaattga gcttaattta atttaactgn cttgggcaac catcatgcct ggctaatatg    180
ccatattatt tccgttnac acagtacatg tttnngttta ctaaaccattg atcaaaattg    240
atcgaaatct ctaagttttg gttaccatgt ncagagaaca attgctcanc atggcattta    300
aataaaacag taatatttta aaaattcaca aatccaatgc acaatttatt ttaaaaaaat    360
    
```

aaaattttaa aaccttgagg gatgggatga aggctttggg naattaacct gaaaaacnaa 420
actnaccaaa aacttccaga accaggttgg ttccnggatt atacntttta acncttttaa 480
agnggactcc tggc 494

<210> 6623

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6623

gagatggagt ctgctctgt catccaggct ggagtgctaa tttttgtatt ttactagag 60
atggggtttc accatattgg ccaggctggg ctcaaactcc tgactttgtg atctgcccac 120
ctcagcctcc caaagtgtg ggattacaag tgttgggtgcc gtgagctgcg cccagccaac 180
tactgtgact tctaaaaggt gaattattata aaattctagc ttaaccaatt tccctccgct 240
tcatcgaatt ttggacattt gaatttcata acaattcatt ttgtttttgt ttcgttttgt 300
tttgagacgg agtctggctc tgtctccagg ggnggagtg agtggcgcaa tctcagctca 360
ctacaaccac cgctccgggt taatgagatt cccctgcttc agcctccaag tagcccggga 420
ttacagacat gtgccaccac gcccaagtta ttttttggat ttttaagtaa agacnngggt 480
ttaaccatgt cggccaaggg tgggcttnaa cttctgganc cttgnaatcc ccnncctttt 540
ggaagg 546

<210> 6624

<211> 505

<212> DNA

<213> Homo sapiens

<400> 6624

gagatggagt ttactcttg ttgcccaggc tggagtgtag tggcatgata tcagcttact 60
gcaagctcca ccttctgggt tcaagcggtt ctctgcctg agcttctga gtaactggga 120

ttacaggtgc ctgccaccac acccagctaa tttatgtgtt tttagtagag atggagtttc 180
 accatattga ccaggctggt cttgaactcc ggacctcgtg atctgccagt ctcagcctcc 240
 ctcccaaagt gctgggatta caggcatgag ccaccacacc cttttttttt tttttttttt 300
 ttaaaggagc taagtttctc ctgtatctta aacagagagg cttcatagt tagtcaatgc 360
 tcatcattga ctcaattcta gggtagcaat ggtgctggaa acaaaggaga tacatcaaaa 420
 atnctaccta gcagaaaact ntccctatg gatgggcttt aaaacntttn aaaatacctn 480
 ggnaaggcna atttgaaaaa gggca 505

<210> 6625

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6625

aatagcagtt gtccagtgga attatgtgtt tatttgtgtg attaggattc tctctctctc 60
 tttcattctt attctctgat ggtggggggcc atgttttcag tcacccttat atatccatag 120
 tacaacaaca tgtccccac aaaagactaa ttaaaagaaa aagaaactca actatgtatg 180
 tgtgttctc tacgtatatg catagggaaa atgtaaaaac tagaataagt atccatttgg 240
 taagattaac agggatgctt tattttcttc tttttgcttc tgggttttca aaactttata 300
 aacggttatt ctgtaatcat gcaaaaattc aattaaaaat agatacacgt tataacggat 360
 tgaattgtgt tccccaaaac ggtgtgtcga agtcctacct ccagtaacct gtgaatgtgg 420
 ccctcttaag aaaaagagtc tttgcagatg taattaagat gtaagttata cagattaggg 480
 tggccctaaa tccaatcact agtatcctta aggaaaancn tngagaccgg cacaccccgg 540
 aaggacccag cc 552

<210> 6626

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6626

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gagacagagt ctcaatctgt tgcccaggct ggagtgcagt ggagcgatct cagctcactg 60
taacctccac ctccctgggtt caagtgattc tcctacctca gcctcctgag tagctgggat 120
tacaggcgtg caccaccaca cccggctaata ttttgtattt ttagtagaga cggggtttca 180
ccatgttggc caggctggtc ttgaactctt gacctcgtga tccacctgcc ttggactccc 240
aaagtggaga aatattttat aaagtgaaga caagactcat gcaaatatca gatggaaatg 300
taccaaagat tttattttaac tcaagaaata gtcatatgtt acatttgatt caaaggaaaa 360
atcccataga taaatagaca atagacagat aaatgataga cagattaaga tggatggatg 420
gatggatgga tggatggacg gatggatgga tggatgaata gggatcaataa gggaatgctg 480
gtgctgaaat ggattaccaa atnngccaa atggtggant nctggatgaa gcttcaaggc 540
attccctn 548

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<210> 6627

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6627

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ccaagaaatc ttaatttctt tattgtttga ctttttgact caacaatttt tttaaaactt 60
tttgtttttt tctgaaacgt tcttgttggt atgagccttt tgttttgttc tcgttaaagt 120
cactcgaccc aaaattgggt tggcatatcg aaaaggagac caaggaggga ggggctgggg 180
cgtgggaggt ggggaggagg cccgaatgga cagaaagttg aggataagag aagaggaaca 240
tagagacagc cagaaagaca tggggaaaga gtgttggaga cagagaaagg ggaaggcaag 300
ggaaagccaa aagaaaccaa aatccagaga aaaagaatta acaagattta ggagcaaacg 360
agttcaggag cctaaggaag ggagtaggag aggaaaccaa gacccttctc tgtaccgtcc 420
cagctggggt ggggccgtca aggcaccagg tctggntagg ttggggggac acctgggctc 480
tggggccggt ttgcactgga ctgcatgat gtccagccca cangggggcc ctgcacacag 540
tttttn 546

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<210> 6628

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6628

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gagatggagt cttgctctgt caccaggct ggagtgcagt ggcgtgatct cagctcacca 60
caacctccgc ctectgggtt caagcgattc tcctgcctca gcctcctgag tagctgggat 120
tacagggtgtg tgccaccaca cccaactaat ttttgtatit ttagtggaga cggggttitca 180
ccatgtttgt caggctggtc ttgaactcct gacctcatga tctgcccgcc tcggcctctc 240
aaaatgctgg aattacaggc gtgagccact gcgccaggcc gtatttacca ttttcaaaaa 300
cttgcagcat atcctactct actcaaaaca gtaagcccat aaactgttta ttgagtttta 360
aatgttttgg aaagtatcta tacttatitit ttacggagta atgctatcta ttcatagtat 420
tactggctca gggaagattc tgcctagaat caatatatca caaagcaacc caggagcagg 480
atgaacctaa gggagaaata tggctggggg tctnctgggg aggaaatgac tgganaatit 540
taaa 544

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<210> 6629

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6629

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aacttgaaca gggaaagtit aatatagaga attactggct ttaacagtga actggaataa 60
tgagggtctc actggtaaaa tgcttctgaa ttgactggaa atccatttgg ggtgctgggg 120
aacgttatit ccagagaggt gcctcagtgg aggcgctgtg tctcctacgc aacttctgag 180
ggctggaggg tgccaagggc agctgctgac cgcctgggtgc ttcaggagct ggggtgctggg 240
gaagccacat gcactgcggc gtccagaggc agaagcacia ccaacaagaa ccacgaagga 300

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ggcgcctttc ctcctataat gcctgtttgg tgccctctac tgacaaagct tatccccctt 360
 caaaaaactg ccaactgaaa aagctgaatt tggaacataa agtcaataaa tccataacca 420
 gcaatactat ggggcctggg gtgcgctggc ctttantgag tggagtgggg ccnaaggatg 480
 cttgcatgtc ctgcaatggc acancggggc ttcaccgggg gaaaancatt cctggaaagn 540
 gtcatt 546

<210> 6630

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6630

gttttttttt tttttcacct ttaaataaaa atactttatt cattcctgat aggttatcaa 60
 aatgtacact gttaaccaag taaaaatggg atgctgaaat agttaactag ggcatatttg 120
 aagaattttg tttactttta aaagaggaaa aatcacttcc aatcttccct tccacacatt 180
 cctaacaagc ctgcactata cctgctttaa actgaaaata taaacaatta catgggcccc 240
 acttcattac agaatgcatt ttcctgtact cttaaaggaa gctattacat tgaagttacc 300
 ttcctttgcc aaaaactttc agacaagttt actgctcttt atattttgtg taactttgta 360
 aattatacaa gaaatatagc acacaacttg aattaatcta aaaacacata cacataaaca 420
 caggataaag tgcaacacaa caggaacatg gtctggcaac attcactttc tnaaaccccc 480
 ccgaaaggat ttcggagtaa anggaataan gtggtctcaa ggcttgaccc taaatcacca 540
 gaataggtat tttcccn 558

<210> 6631

<211> 527

<212> DNA

<213> Homo sapiens

<400> 6631

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 ggtctaaaat ggtccctctg ctgaaatgct aggtgctagc cgtaattctg gctttaaaac 120
 caaaacccca aatatttaat aaataaaaaat tagaattagt tgccattcta ctccaaacca 180
 gctagcctag ctgaagagaa gaggggaaggg ggaagaggcc agagaaagga ggaggcagtc 240
 agatcttaga cctgtcgcta cagggacagc tgaaagaagt agcactaaga aagatcatcc 300
 gagcagtcct cagtacagcc cccacttttt ggcagaggta gggtaagggt tatgtgcacc 360
 ctctctctac cctcaattca tttgtgtcat agaggagagaa agttaaaagc tcagctttgg 420
 tttctggccc aagttanggg agcttagaaa nggtaaccct tgggccagct tttggcagaa 480
 tganggccca cagatnggac aattanggca caanccttgg cnttgga 527

<210> 6632

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6632

agacggagtt ttgctctttt tgcccaggct ggagtgaat ggtgcactct cggctcactg 60
 caacctctgc ctctgtgtt caagtgattc tctgcctca gcctcccaag cagctgggat 120
 tacaggcatg caccatgccc ggctaattct gtatttttag tacagacagt gtttcactat 180
 attggtcagg ctggtcttga gctcctgacc tcaagtgatc caccgcctc ggcctcccaa 240
 agtgctgggg ttacaggcgt gagtcactgt gcccggcctc aaaaatcttt aataaagaac 300
 ttgctataat acaggaaga ggataattct gctacattgg agaaaggttt cttctcctga 360
 gacaagatgg accaagtctc tcaatccgca aaaacaatga aaaacaaaca acgatgtgtc 420
 aatacttagc attaaagaag agtaattttt ctattttaaa aagttcatta attttctggc 480
 tattaanaaga caaattcctt aaggattcaa tggattgaat atngggggaa aggaagaaat 540
 ttaan 545

<210> 6633

<211> 400

<212> DNA

<213> Homo sapiens

<400> 6633

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cagacggagt ctctgttgcc caggctggag tgaagtggcg agatctnggc tactgcaac 60
ctccacctcc tgtgttcaag tgattctcct gcctcagcct cccgagtagc tgggattaca 120
ggcacgtgcc accacgcccc gctaaattnt gtattttcag tggagatggg gtttcacat 180
gttggccagg ctaatctcga actcctgacc tcaaatgac caccgcctc ggcctcccga 240
agtgttgga ttacaggcat gaggcaaga ccagcctggg aaacatatag agacccatc 300
tttataaaaa atgcaaaatt ggccaaacgn ganggcacac acttgtagnc ccagctactt 360
gggaggctga ngtggnagga tcccttgaac ccannagttg 400
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<210> 6634

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6634

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ctttgagaca gggctctgct ctctcaccta ggctggagt cactggcaca atcacggctc 60
actgcagcct cgaactcctg ggctcaagt atcctccac atcagcctcc tgagtagctg 120
ggactatagg cacatgccac catacccagc tgattttgt atttttggta gagacggggt 180
tttgccatat tgcctggct ggtctcaaac tcctgggctc aagcaatcgt ctgcctcggc 240
ctcccaaatt gcaaagatta taagcatgag ccaccgccc cagcctagat tcgtcattct 300
aaactgcagt tagaatcatg gtattccctc ttttaattcag tgtatcctca ttgtctgtac 360
tagggtaaac gtccttcaca cggttcataa ggcctttgta ccacggcccc agctcacgtc 420
tctagcetta ccccttacca ttigtattac aaccctgtgc acgatccatt ctgaacaatt 480
taccaattcc ttaagtaaaa gccaaacttt ncttancctc tgaatctaga aatcctatgg 540
ccngga 546
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<210> 6635

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6635

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agaaatgcc a gacactaatt acaagactga agatttgtga ttattaaagt gataagtttc 60
cagtgcata tacatgaaat gccagcacat agctaatact actgaccaca tggactgctg 120
gggacatgga ttcctaaatg ctatgtatgt gctcactttc actttaatgt aagttttaat 180
taaaagcctc attacttggg ctctcctgtg tatatatggc attagtgtgt attttagatc 240
atctcaaaat tggcaaaaac aattatggtt aaaaataata gtatttataa aaatttatat 300
agaacttctc cagtaaattc atcaaaaata ctctgattta tctatgcaga ttgcaggagg 360
aaatagagtg ttttgccatc ttaggactcc acctttgcct ggtactgaaa cttttaaact 420
aaccacagta aatagtcata tacaggacaa gatcagactg gatataagt acataagtca 480
aatacttcaa aatcctttct gcatccaatc tctcagaaaa gattaatttc aaaancctgg 540
atctggctat t 551

```

<210> 6636

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6636

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aagggtgttac ttggctggat caattccagc atctaattta gttaagagac tttaaaaagg 60
gattatatat tggagaaaaa ggcagaaatt aaaagtgtat tticagtctt aatatctcac 120
ataaatgacc ttagaattgg ctatgttagt agttagttaa tgtggtacat gttaaaccac 180
agtagagaaa caactatggt tgtgattaaa tcacttgact ttcctgccag agctagaatc 240
ttaactcctt taaaagacga ctctgggaaa tccagtgttt gtatgtaaaa ataaaaggta 300
agttaattct agattgaggg gcagaggcta tttcttaatc tccaatctcc ttgggaaggg 360

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aaagtattag gaggcagtaa tggagtagaa aggtggggat ggcaaataag agaaagattt 420
aatgtaacaa aactgttttg ccctcttctt aagtaaataa ttattggaat aattagtgn 480
accatcacat agtaatngn attttgggct tgactaagtg ggtaanggat gncctttt 540
tcacctttct 550

<210> 6637

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6637

ggtagagatg aggtcttgct atgttgccca ggctggctctt gaattcctgt actcaactga 60
tcctcccacc ttgaccctc aaggngctgg gactacaggc ttgagccact gcgcccagac 120
gaggaatccc gctcatagga gggttgttgt gctgtgagtt gtcaaattgc tcacagggct 180
ggcgcctcag gctaccatta aagtgttgcc tcagccagta gggataattg agaggtaccc 240
agagctatag ctccaagttt ggtctttgcc agtgaatcca aatgcagggt tctccctgtg 300
tgctcagctc gtgctccac aggtttcatg gcttctcgt acacaatgcc atgcctattt 360
gaatcacact agggctattt tctgggaaat gtgagcttta ttcaaacag tgttttttca 420
gagcttattc tctattgaaa tagtggtata aatgggagct gngttcttag agagacccn 480
aatggnetca tagatcataa agtaatngag aaaagttaaa tacgcttggc atgaacaagt 540
n 541

<210> 6638

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6638

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gcctttgtgc cttattgtta atgaaagaca atctataaat acagaaaagg ccatatttta 120
 aggatttctc attggacaag caaatatctg taacataata gagtactcga aacttaattt 180
 actatcctat ttctctaata acaagtctca gatctaagag ggaaataagg aagacaggga 240
 acaatatcaa acatgctcat caaataactc aaagcaaaca ggctaactcc agtcatttgt 300
 taacaaattt taaggatcgt ccatatatac gtgtggcgga aagcatgtgt ccaggcaatg 360
 caaacctgca agaagaggac atgccctctg aggtctgacc ctgccttcat ttccagcctc 420
 agctcacatc acttttacct tcgnggtctt tgaacataca ttggcctttt ctggctctaa 480
 gcttttaaac attacctagc atactcttaa cttcagcttt tcacttgcct aatccatent 540
 acccttttgg ttca 554

<210> 6639

<211> 493

<212> DNA

<213> Homo sapiens

<400> 6639

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 ntcactgcaa cctctgcctc ccagggtcaa gcaattctcc tgcctcagcc tcccaagtag 120
 ctgggattac aggtgcccac gaccatgccc ggctaatttt tgnattttta gtagagatgg 180
 ggtttcacca tgttggtcag gctgggtctg aactcctgac ctcaggatgat ccaccacact 240
 tggcctacca aagngctggg attacaggca tganccacca cacctggctg acttttagtnc 300
 tttnttatgt gatgaatcac atttattgat ttgccgtatg ctgaaccaan cttgcacccc 360
 agngataaag cctacttnga ccatgggtgga ttagctattc tgatnttact gctgggattt 420
 gggtttgnct cnttatatct taaaggattt ctgcctttan ttanacccta tgggataact 480
 gggncataata ggt 493

<210> 6640

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6640

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cccttgagac agagttttgc ccttgttgcc cagctaaatg aagtgatggt ggatatgtaa 60
taattataca tctatcaaga ctagtttggt aacttaacaa atctcagcaa tcccttactc 120
ccttcataac agaagtgcgc agaatacaac ttttctaaga gagtatctaa ggaaaatggt 180
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ggagcagcat tgtggcatta ctctagactc agggaatccc tgcaactggt ggaaaactcc 300
tactcaaaaa gatgtataaa catgtacaag gatgttttgt tcttgatagt aggggctaaa 360
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tttcagggtga agtagaaaaa gaatgaattt agaaaattgg aggttcacgt tagaaggttg 480
tgtgttctga acaaaggaat gaatgnctgg tgaagaattt atatggggng aatccagccn 540
caaagctngg c 551
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<210> 6641

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6641

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attgtagaga cggttttgcc atcttgccca ggctagtctc aaattcctgg gctcaagtga 60
tctaccacc tggcctccc aaagtgctgg gattacaagc gtgaagtacg catccagctg 120
gtatttgatt ttaaaaatca tttttccaat tgtccactgc atatatatag aaatacaatt 180
taattttgta tgttgacctt gtattcttgt gatcttgcta aattattagt tctagtagct 240
ttttttaga ttcattagga ttttctacat acacaatcat gctatttgca aataaaataa 300
tgcttttata cagtttgga tttactgtgt ttccttaatc taaaaatggt atgtctttga 360
ttctggaaaa tgctgtgctc ttatctcttc agttattgct tttgccccat tctcttaatt 420
atcttttgct agaactctcc tctgtaacct cacgcctctc aactttncct taaatttcta 480
cttttccatt ttctggggtg cctgggaata atttctagat tatcttccat ttactaatct 540
```

n

541

<210> 6642

<211> 287

<212> DNA

<213> Homo sapiens

<400> 6642

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caggagggtg tagatccttt atttcctgca ccacacgcac acaggctgac aagcaatagg 60
agattgagag gtgctgtgtg aaggggggca ggtacctgca ggaggcctca gtcccagccc 120
ccagctattg aggaacaaag gtgtgggaaa gggcanaaca tggaagagga agccaggggc 180
agggaggggg ggatcaagac agagggggana ggggctgggc catggatggg agcctggaca 240
ccccagggcc actggcanaa gaaggagggt nggganaggn naccnc 287
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<210> 6643

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6643

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gagacggagt ctgctctgt cgcccaggct ggagtgcagt ggcgggactc atgatccatt 60
tctttaaggg gcatctgtgt ttaaaatttt tagngataat atttcttaca tcatcatgta 120
tattcataat tgaacaatga ttcaccttta ttattcttg nttattgtt ctatcattta 180
tctattgatg atgaacctca atctattaat ccaaagtaag aatatgatct ttgcacattt 240
ctgatatcta tccaattatg ttttctgttg gacctcanag tttcagacac gtagtattca 300
tcgtccatga ctcaaagcc accagtgggc atcattgggc catgtttagt agaggtgggg 360
tttcaccatt ttggccagac tggncctgaa ctctgacct ganggggatc caccacctn 420
ggccttccaa aggctgggat tacaggcatg agccaccaac ccggncaggg agacagttct 480
naataccacc ttaaggccct ttctggtaaa ngctacatnt ggataagtct gggtgggttn 540
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<210> 6644

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6644

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gatatcaagca tattcctctc ccaaacttca taaaccacca ctatgttact caagctagaa 60
acctaactta tcatgctgga tttcttcctt ttccttattt ctgacatcaa gtcacccctaa 120
aattctgtca tttgtatctc aaaaatatat cttgtatcca ttcccttata cccatttcca 180
cacacatcac cctagataag caagcatcaa atctcaccta gagaagtcct tcacaatttc 240
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ttccatggat caccatttta atggaaggct tagattacct caagagtatc tgtattgcag 420
ggccaattt catcctctg cattctactc tncaccaagt agntagaggt gatttttaag 480
aaaataaaaa gccgattttt aaatatctgg aaaataagct ttatttnacc tcaagagaan 540
ccaacttttt tcagnng 557

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<210> 6645

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6645

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cttttaccat attccaaaag ttctgcaacc atcaccacta cctaattcca gaatattttc 180
ataatgccaa aaagcatgcc tgtacctatg ggcagtcact ctccaattcc ccacttctta 240
cagtctctga caaccactaa tctactttct ctatatatag atgtacttgt tctgggcact 300

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taattcaaca aatggctctg ggacaactaa atatccacat gtaaaagaat caagtttagac 360
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 aattataaat cacttagaaa tagtaaactt ttggaatggg ggataagcca aggtttccaa 480
 atntgactgg aagcccagcc accaangaaa aaataatggn ttcacatagg tnaaacantt 540
 ggggtggaaag n 551

<210> 6646

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6646

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 gacaatttat ttctatataa cagggcatat actcccaatt tgctgctact tcaaagagca 180
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 aaaaaaaagt aataaaagct aaccacagaa tatgtcagtt ttggtttgca gacaaccct 360
 gagattatat aaaccaaagc gttaagacac caaatagtca gaggtaaatt actaaggaga 420
 attacattca tacatggngn catagcactt atcttttana anggacttg gttaccattc 480
 caaaagcgtt tactggctng gatttttcag gaaaatagng aattttaaga aggttcttaa 540
 aaaatatcct tttcctttg naaag 565

<210> 6647

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6647

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 gtttatcaca acctattttc taaagctatc ccttagcaga agaaagcctt acatatttca 420
 tctgattgat cctgatatat caggtangaa ataaacagta ttatggttna attctagact 480
 gtattaagta agccacatnt ggaattggaa cctggttnaa tnnaaagccc aatcactggg 540
 caaaaatcct tttnt 555

<210> 6648

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6648

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 tacaggcgcc tgccgccacg cctggctaata ttttttgtat ttttagtaga gacggggttt 180
 taccgtatta gccaggatgg tctgggtctc ctgacctcgt gatccacccg cctcggcctc 240
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 acagccaagt ctatctcatc tccttgccca attgccacca tcaagttttc tatctnaggc 420
 tggttttaat ccttttcggg acatttatca aaaactggaa tgtgggtacc taacttnaat 480
 agccatnatg ctctcttctt ggtaaactgg aaccgaatc tgggttnggg nattccattg 540
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<210> 6649

<211> 522

<212> DNA

<213> Homo sapiens

<400> 6649

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aagatagagt ctgctctgt cgcccaggct ggagtgcagt ggtgccatct cggctcactg   60
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tacaggtgcc tgccaccacg cctggctaata ttttttttgc attttttagta gagacggggt  180
ttccctgtgt tagccaggat ggtctcgatc tcctgacctc gtgatccacc cgccttggcc  240
tcccaaagtg ctgggattac aggcgtgagc caccgcgcc ggccaatgtg atgtcttcat  300
tcttgttagt ggcagaatac acgagcaatg tgggacgggt ctggggaagt tggaaaagaa  360
tctctccctc atgctggagt aaaagtcnat tcccactccc aagctatcac ccaccacaca  420
actggcacca caagggcaac ggntnttgcc aagaagcnga agcanactcg nggtggnggg  480
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<210> 6650

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6650

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agcactcagg ctctctctga ggaaaagaaa tgaccaaagt gcagactttt attactgcca  180
ttcctgctcc taatgggagc aggagtcaaa aggaaaaaca aattaaaagg ggctaattgag  240
aaaggaggag agatgagaca gagagtgtga agggctatgc cgctggcatc tcataaatc  300
ttattgagaa tggcacaggt attaaaaagg tttctgggta gtctacgaga aatgtcaatt  360
attatctcta ctacaactac ttacatatat ctaatgggga aaagaagtgg ggcttaagt  420
tcaaaatgga ttgggagacc aaanggagaa ctnccttat taaattccac caaggtggaa  480

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ggtacctggc ccantcctta aaaggatttg nggccaatgc ttgcactttg gtggccagga 540
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<210> 6651

<211> 519

<212> DNA

<213> Homo sapiens

<400> 6651

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tacaggtgcc caccaccatg cccggctaac ttgatcagc ctttgatgtg tcttgggact 180
gaggaagaca gaaggagtca aagattaggg taatatattg agcccaaatt actgaggaat 240
aatacttttc ttcgtaacaa cggggaaatt aacaaaggaa gctatgtttt aggttacagt 300
gggatatttta aatgtaaatt atggagggag ataactgaac taaatttagg aaagagaaca 360
caactataaa ttcagacttg caagtcagcc ttatggaagt gaagtagaac aactgagtta 420
tgaggagaat gtataaatgc aggaaggagac tctattgact aataaatggg gttcataatc 480
tgcacataaa tgatgagact taaaaggnaa tctgctntg 519

<210> 6652

<211> 526

<212> DNA

<213> Homo sapiens

<400> 6652

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ctcagcctca gcacttctga ctttttggga ggggtaattc tttgaggctg ctttccttgt 120
gtattataat ctatttagca acatccctgg cctctaccca attcatgcta ctagtatccc 180
tctaattgtg acaaccggaa atgtctctaa gaattgcca atgcctagt aaatcatcct 240

cgctccactt ttggcaacca ctgtttcaca tgatacctgt ttttttgagg tgcttttagta 300
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 gaactcttcg ctcctaaggg atgttaccta tggggaatca ggagctggaa atagaagatg 420
 gtatacatga ttttgattat ttctccattc cttttaattt tgggacgtcc ccttaagtna 480
 aaccaaacca aactgttaaa atcccttaac nctaattttt tcatat 526

<210> 6653

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6653

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 aaagaacctt gttttataag aaaaaggggg tgaggaggagg gaagagagaa atgcgtagac 180
 tgaagaggaa tcaaagctca ggattcttca caagtgcagc agcttccaca gctggcccag 240
 aggatggtag ttgcatatac caggttacgc taacctcaac aagacctagt tctcacacac 300
 aaatgtgtcc agtggataaa acctcagctg cagaaataga ttttagcaat atccaaagac 360
 attccagggt ccggtaggaa gaacaaaagt atggcaaaat tgaaaactac catggacttg 420
 gcagcatcca agggcatcac cagggggggt ctttcatgca tgcctagagt cctghnaaact 480
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<210> 6654

<211> 348

<212> DNA

<213> Homo sapiens

<400> 6654

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caacctccac ctcccgggtt caagtgattc tcctgcctca gcttcccaag tagctaggat 120
 tacaggggtg tgccaccacg cccagctaan ttttgnattt tgtaaagaca gcctggccag 180
 catgngaaa ccttgtctgt actgaaaata caaaaaattg gctgggcgtg atgngcacg 240
 cctgtaatcc cagctacttg gaagggtgag gcaaaagaat ctcttgaacc ngggagacgg 300
 atgctgcaan gancnganat cacaccactg cactgcacn gngcgacc 348

<210> 6655

<211> 512

<212> DNA

<213> Homo sapiens

<400> 6655

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 aatgttttca agcaagaaaa gcctctttta taaagaaaat aatgngttta cacttacctg 180
 taaccattct atctattctg tctccacttc tttaactata aaaataaatg tcatcataag 240
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 gaccagaaaa tacataacac gtgtcatttc taattctgtg ttagcagtga ctgaatcgcc 360
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 tcggtcctca caagttgaca gtgggatcaa ttactccctt ttatggatag agnaaggtaa 480
 cccgnggaag tnttacnttt nccagnggga nt 512

<210> 6656

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6656

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tgtttgtcaa ctgtgaactt cacactacat tgtctaagga tagaaaattg atgggtatca 120
 ctctgtcaga aaatcctcac caagaagcca attcaaggaa tatgaaattg acaagccttt 180
 caaacaaga tgtgttcgga cttcactgat gcgatggtag gtcttttggg ttacaataga 240
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 gctcacgttt gtctgggcat tgcagcactg cacacataca tgaattaagc aaagcatcgg 360
 aaagtattga cacatgagac taaaataaat aagagaaacg agctgctctt tatacctaga 420
 aatagctgga aattactgaa aaaaattaaa ggtgccaaag gtttcatttt aaccccatga 480
 attggggatg aaatccatt tctcttacta tggcaggact gnatgccata 530

<210> 6657

<211> 521

<212> DNA

<213> Homo sapiens

<400> 6657

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 caccatgtca gctaattttt gaatttttag tagacatggg gtttcaccac ttgaccagg 180
 ctggtctcaa aattcctgat ctcaagcaat ctgntcacct canctccaa actgctggga 240
 ttacagatgt gagacaccat gccagcctc ctaacagtta tttctaaccg taaattccca 300
 caggtaacct caactcaaaa tatctcaaac tgagctcatc aacaccctct agccacagaa 360
 accggctttt tcaaccatgt attggctttg accagcatcg ccatccaccc atttgtccaa 420
 accacatntg aagactatct ctctctntca ccaagactag gtaaattctta ancttttaaa 480
 taattctcaa anttccttcc tttcnctttn aaggcnggac c 521

<210> 6658

<211> 529

<212> DNA

<213> Homo sapiens

<400> 6658

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gccgtgaacc acatctcagc caatcttccg caaagaaatg tacccaaaaa cttttctgta  180
aattcaggaa ggtgatccac accttcaca ttttgttttg aaacaatgat ggtattttta  240
aagttcttca aattaacaaa agtgatatca gaaatataaa catttctaaa acagagcggg  300
ctgtgaggag tgattttgcc aaacttaagt cagtagcact cgacttatat ctgcttttag  360
tctgcggtgg caccacgctt accaaggcac agtatccctt tgctatccct ttccttctgn  420
gcattttttc tttctgnatg ccttaaccac acttnttcac ctggatacct ggagcttatt  480
aagcnttaan tccccctngg tattactggg gaatggaann ttctggttt               529

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<210> 6659

<211> 524

<212> DNA

<213> Homo sapiens

<400> 6659

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attatagaga gatgctgctg ggatgtaatg ggatacagtc tatatgtaaa tttttcagaa   60
atccaaaaag ttctgaattt ggaaaatcat ctggccccag cagttttgga taagggattg  120
taaattcacg tttctaaaag taaagagctt aaaggaaatc agaaacttat actgacaaac  180
caaatgaga taaagatgct acataagatt tcacttttac ttcttatatt ttaaaattat  240
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tatctacca attcagctaa taaatttcat gttattttat taagatgact tatacacata  360
aacagttacc tctcatgtaa aacaggcacg tatctgtaat actttaaggg gtgaccactg  420
atcactgggt cacaagccct gaaaatatgg tttaaggccc agancatgan aaanggctta  480
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<210> 6660

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6660

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atcacagctc aatgcagcct tgacttccca agttcaagt atcctccac ctcagcctct  120
caagtagctg ggactacagg cgtgtgccac acctggctac tttttaattt ttttttgaga  180
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tcggctcact gcaagctccg cttcccgggt tcacgccatt ctcctgcctc acctnccgag  420
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<210> 6661

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6661

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gcctggccaa tttttctgta tttttagtag aggcgggggtt tcaccgcgtt agccaggatg  180
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gcataagcca ctgcgccag cctatttcaa tcatttcaaa tacagcaatt cccaggagga  300
gatcacactg ccctgactgc ctcagcagag tcaactgaac ataaccatca gctctctttg  360
gtggcttggt catcaggagg aacttgatcc atgacgttga tgganagggc cccgaggaag  420
ggtgactgtg ggcttcanaa gtcaagggtc cctgtgaaat gccaacctt ctttgggtct  480

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tntaccaagt tttctgggca tggttctggn ccttttctng gccatnggaa n

531

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<211> 528

<212> DNA

<213> Homo sapiens

<400> 6662

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 aaggccccctt atcttttgtgt gtccgagaga tgctgttcct ttttggggac actgaaagtt 180
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 cctggctgaa ttcaactggg tgtgctggct gggtacttac ccacctctgc gaactctaca 420
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<210> 6663

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6663

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 tacagtagga gccactgngg ctggctcctt tctttctggt ttgcgtgcct tttatttctt 180
 tttcttggct aattactctg gctagaactt ctaatactgn tttgaataga ggnggaaagn 240
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 taattattgg ctttcatata acagttattg atttgcataat attgaaccct ttttgcaccc 480
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<210> 6664

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6664

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 tttcattaat ctctctcaaag acccagtttt ttgnttcatt gatcttatct attttcctgg 480
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<210> 6665

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6665

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 gcatgcacca ccatgccctg ctaatctctg tatttttagt agagatgggg tttcaccatg 180
 ttggccaggc tggctcga ctcctggact caagtaatcc acttgcctca gcctcccata 240
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 cataaataat gacagcccag atttatttgn acttaaaaag gnatacaggt aaatatcatg 480
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 ccanccttg 549

<210> 6666

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6666

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 agaccaggaa agaataataa tctgctgggtg aagtcgcaga atggatttga ggtaagaaat 180
 gtaagatgag aagaccaa atcaagaacag gagatttcac cattagcata tcaaggtaca 240
 cgttacaaat aacatttttg aatccctatg aactaaatc atcagatagg caaggttgat 300
 ttttgcctt tctatttgca aggtggaaaa atatagttca ctctatagat ttcttctttt 360
 ttgttgtttc ctttgttttt gttttctagt ttaaaaagag ttattccag ggtgatcggt 420
 gaagatggcc actcaggagc cgtagattca agttgctctg attatacact ccaactacca 480
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<210> 6667

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6667

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ttacaggcat gcaccaccac gcctggctaa tttttgtatt tttagtacag acgggggtttc 180
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taaatacactg ttttcacttt tttcaagcat gcaaaattaa aaaaaaatg gaataacttt 360
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aatagcaata tataaattat taatgattaa tatctcaaag aaaattttca gcaggacatt 480
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gnaann 546

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<210> 6668

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6668

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aagaaaaacg aacatgggtc gtgccttagg gagcttatat agacaaaagc aaacaaataa 180
tcattaacct ttatTTTTGT aggtgacaaa tgagcaatgc ataatatgca aaatctgggt 240
taaggagag aatcaagata ttcagaaaaa aaatctcatt acctgctcct catgcctcaa 300
aaaaaatcca gaagattttg aaatgcagga gataaacatc acatattcct tactaatctt 360
tgtattccaa aaataatttc tgaaaatcac aggaaagaaa acttttTGT atttattagc 420
agaggcaagc tatactatca attggcacct caagggcaca aaattgcctg gactacacct 480

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tcaagtcaaa atttctacct cagaagcaat gatgttctga agatctctaa tttttaatgg 540
gga 543

<210> 6669

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6669

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gctatatgtg actagtggct accatataaa acatttccat cacaaagttc catttatcag 180
atcttatata gaaccttgaa taaaatttaa tagacaagtg attttgtatt taacatttca 240
cctttattga atgcctataa ggccatttga ataacggatc atgtacaaag caacaggaaa 300
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agagcaagga cataaaactt ccttagcttt gtaagtctgt ggaaatcaaa acttctaaaa 420
gagaaaaccg aaatcagaat tactgacact ttaggccagg catggtgcct caagcctgta 480
atcccagcat ttagggaggc caaaggatga gccccacgcc caggccaagt gaccnttnac 540
naaa 544

<210> 6670

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6670

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tataggcgcg agccaccgtg cctggcctgt tatctttgcc ctgggacaat ccctttatag 180

tagttgtcct tttagagaac tgaccagaac tccctccaac accttctctc tgtcccagcc 240
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 aaggttctca gctcgggaca caactttggg caggtcacag ggancagaa caatggggca 480
 aagaaagtgg agtgtggggc aacaaccang acangggctt gnaagccaaa aggtcgctgg 540
 ncaca 545

<210> 6671

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6671

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 gaacgcagtt gttcatctat taaaacatag tctagacgat gagaaataac atcaattcca 180
 aaggaggctt gaaaggaaca cactgaaata ttgtggctat gataattgga ggtacgatgt 240
 gttcattgtg tgtatcatgc atgtcagaga ctgttataag tgctttacat gtgtcaatca 300
 cttgggtccac ataagagtcc tgtgtggtag gtgcttttat aatctccatt atttgaagtg 360
 agaaaaggta agaaacttgc tgaaggccac ttagctagtg agtggagag ctagaaaagg 420
 aggtgagaga gtctgtgtca ggggcaagag ctctactgct canaggacng taaaccttta 480
 agaccctcat atgggttgac tagtcaatta aaaatcaacc anggttccca anggaccccc 540
 tgaacn 546

<210> 6672

<211> 529

<212> DNA

<213> Homo sapiens

<400> 6672

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gagatggcgt cttgctctgt tgcccaggct ggagtgcagt ggtgcaatct tggtcactg    60
caacctntgc cttccgggtt caagcaattc tcctgcctca gcctcttgag tagctgggat    120
tacagacatg tgccaccaca cccagctaata ttttgtattt ttagtanaga cagggtttca    180
ccatatttgt caggctggtc ttgaactcct gacctcgtga tccgcctgcc tcggcctccc    240
aaagtgctgg gattacaggc atgagccacg tgcccagcaa aatatagggt actgtttttc    300
agaaaaatac atatttagaa attttttctt atgattctgg tcctatatgt gtctactctt    360
aatattaaat agagaagcat caataaatga ccaatttggt aaactatgat actgngatca    420
ttgttagaac tagttttaca tatggggaga gagtntattc caaaatacct nccctacttt    480
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<210> 6673

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6673

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aatcaaaatg ggcatgaaat ttctcatggg aatgtaaaaa gaagaacaat gtatagattt    60
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aaaaagctct ttggagatga gaaatctgag gtcggaat taactctctt gtccaaggtc    180
aaatagagtg gtgaaaacta gaagcaaacc tgtctgattc atcctatggc tcatttattt    240
taatacataa aatacgaatt actgctttta taagaagtaa gatggcagta ccgttatcct    300
gaaacttcta aggccgggcg tgggtggctca tgcctgtaat cccagcactt tgggaggacg    360
agacaggcgg atcatgaggt caggagatcg agaccatcct ggctaacacg gtgaaaccct    420
gtctctacta aaaatchaaa aaattagcca ggaagtgggt gtggccgcct gtagtcccag    480
ctactcggga ngctnaagca ggaaaatggc ntgaaccna gangcanaac                    530

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<210> 6674

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6674

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gagacagagt ctcgctctgt cgcccagcaa cttcaaatgc cactctcctc tccagaactg   60
caggcctctc ctctaactgt gtggcataag tcgcacagat tcaagctaac accagggtctg  120
gtgtgtgctg gaaatgctga ccctctccaa gggtcagctg tgcaacactg gtgaagaggt  180
agtggcagag accccatttc cacctaactg aaagtagagg agcccaccag tgcctctcgg  240
aatgataaaa cccttacttt cttctgtgag agcactgctg aggccattca aagatgcctt  300
tttttgtgaa accctttagg aaacagaaag gttgacttat ttgccatgta aacccaaaga  360
agttctctgc gtctggatga agccccacg gtacttggtg tcacaccttt tgnngttgcaa  420
ccctggctct gtgaagaaac aagccccacc ctggnatgac ggctctntgn tacanggcaa  480
acagaaggtt tgggcaatcn ngtagaactt gcanccttag aacagggacc ttgaacctgg  540
a                                                                 541

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<210> 6675

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6675

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ggagacaggg tctcactttg tcacccaggc tggaatgcag tggcgcgatc ttacttagct   60
cactgcagcc ctgacctcct ggactcaaac aattctcctg cctcagccct gcaagtagct  120
gggactgtgg gtgcatgcca ccatgcctgg ctaacttttg tagtttttgt aaagatgggg  180
ttttgccatg ttgcacatgc tggctctgaa ctctgagct caaacgatct gccacctcg  240
gcctcccaga atgttgggat tacaggggta aaccaccacg cctggcccca ttaggggtatt  300
cttagcatcc acttgctcac tgagattaat cataagagat gataagcact ggaagaaaaa  360
aatttttact aggctttgga tatTTTTTt ctttttcagc ttatacaga ggattggatc  420

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tttagttttc cttaactga taataaaaca ttgaaangga aataagttac ctgagattca 480
cagagatacc cgggatnact tccttgntca attcagnctt tancacctta aaaaccttta 540
aagccctt 548

<210> 6676

<211> 523

<212> DNA

<213> Homo sapiens

<400> 6676

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ttgacttccc tggctccagt gatcctccca cctcagactc ctgagtagct ggaaccacag 120
gcacatggca ccatgcccag ctaatgtttg tattttttgt agagacaagg tttggccatg 180
ttgcccagac tggctttgaa ctcttgagct caaaatgac tgcccacctc agtctcccaa 240
agtgccggga ttacaggcat gggccgccgt gcctggcctc ttttggcttt ttaaagtgtg 300
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ctgtgatgct ggaagttttc tatatctgtg ctgtcccaca caattgctac taagttacat 420
gtggcccgtt gagcatttgn aatgnggctn atgcactgag gaagtggaaat cntcatttta 480
attaacttaa atgaaatttc anttnaacag ncccctgggg cta 523

<210> 6677

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6677

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caagtagatt acatgaactg tacaactggt ggagaacggg tgtccagaga taagcagcca 120
gaagccagag tcattgcaaa ttcttcagaa agcagtgate ttgagagggc taggaatcac 180

agtgacaga gcagccgtgc atccttccat gacaacagga aggttaaggt gggatcatgcg 240
 attctgtgct gcacactcag agatacctcc tcctgcaagg ggtgggctgt gtcctctgtg 300
 aaacactggg gaggccttca gctaggggtga cttcaatccc cgatttctgt ttatcttgga 360
 cttttcgctt cttctgctgc tgtttgtttt ctcgttgctc tgggatttct ttgctggatt 420
 ccagactttt gctgtcaggt attgcttctt tactttctcc tttattangn ttttttcttt 480
 tcctctcctt tctttttttc ctcggtcttc cttttgacac tttttccttt ggctggc 537

<210> 6678

<211> 510

<212> DNA

<213> Homo sapiens

<400> 6678

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 caacctccgc ctcccaggtt caaaggattc tcttgctca gcctcccag tagctgggat 120
 tacaggtaga catcaccacg ccgggctaatt tttgtattc ttagcagaaa cagggtttca 180
 ccatgttggc caggctgggc tcgaactccc aacctcaggt gaccacactg ccttgaagga 240
 ttacaggcgt gagctaccac gcccggtgg aaccgttttt aaaaagcatt tctggccggg 300
 tgtggtggct tacgcctgta atctcagcag atttgtttct tatgagagaa ttttaactaca 360
 agtataaact aaggtaaga tgactttaag gaatgtactt tttttgagat ggagtgnac 420
 tcttggtgcc caangncaat gcaatggatg gcnagatctc ggnttactgg aaccttcggc 480
 ttcccggttt aagcgaatct tctggctnan 510

<210> 6679

<211> 489

<212> DNA

<213> Homo sapiens

<400> 6679

ctgtgcatag ccatttgttt ttattagatc tggatatatt cttactttac aaaatatata 60
 gaagagccca aaatgcaaag cagtcaacag tcttctgatg gggaaggggg ctctctgggg 120
 gctctcccct cagattctgg ccaactggga gggtaagcta aatgggacga gcagggtgtgc 180
 taaggggtgg ccgcatggct ggggtgctga caatgggggtt ggaacctggg tcctatggtc 240
 cctgccctct aggtgtgcta aggggcatct ctgggtagat tgagtcaagc aagaagagac 300
 cctaggggaac tgaggaggtt atctgggggtg gggtagggag agcccaggtt gattgaagat 360
 tctagtgaat gccccacac tgggttcana tgctatgcct gcctncctnc ttccctctcc 420
 cttctaaggc atncactgtg gggaagtgat angncccaa gttcaaggaa aggncccaag 480
 tcttttgan 489

<210> 6680

<211> 501

<212> DNA

<213> Homo sapiens

<400> 6680

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 aagtcaagtt ttccgttaaa tagaagaaaa atctaatact ttgtaataaa gaccatccag 120
 ctaaaaacag atcattaaaa caacaatagc gatttgactc tgtattttat ttcaatgagc 180
 acacttcatt cattgtctgc aggaagacta ggctaggtct caatagacaa cagtcacagt 240
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 gtacttccgt tcgatgaacc gcttctgatg ggccatctgg ggaaaattat attttcaaa 420
 gcgcattcat tgctgntncc atttncgctt gctgnaaact tgggcnttcc cacaggctat 480
 tctttctncc ttggaatnaa c 501

<210> 6681

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6681

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ggctttccgt tcgcttggtg gatcttcctt catccctttg agtctatgtg tgtctctgta 60
cgtgagatgg gtctcctgaa tacagcacac tgatgggttt tgactctatc caagttgccca 120
gtctgtgtct ttttaactggg gcatttagcc catttacatt taaggttaat attgttatgt 180
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aatttggtt ggatatgaaa atctgggttg gaaaaacctt tcntttaaga atggtgnaaa 480
attggcccca ntttntttt ggcttanaaa agtttctgct taaaaaaact gctggtaanc 540
cgaactgg 548

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<210> 6682

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6682

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atTTTTTTTT ttcaagcatg gaagaaaatt tattcaggaa ctacagacag agtaaataat 60
actgtgcaca gacgagttaa caaattaatt ttcctaatat cctcaaaca atatctgtga 120
agattattta gggagaagtg aaaatagaca aaaccaatt atccaacatc acatcaagtt 180
gcttaacttg caaagttttc aaagaaatat tttcacagaa ttagagaatg ttatcaaata 240
tataatgaaa aatatctcag tagcccagtc cttttccat caggtagagcc ttcgacaaga 300
tttaaacatc tttttatcat tcttctgaaa gcaatctata ccgattatct ggtatagatt 360
ttctgcaaag gaaaactggg ctctcagaga cttgagtctc ttttaaggctt taaaaagggc 420
tttcagcaag tatttccttc ttgnaaaata gtagggattc anggnaaatt acttngnacc 480
cttaatcata ctggcagctt ggcatgcctt anggtcaag tngaaaacnt tggcatggcc 540

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c

541

<210> 6683

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6683

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gagatcttca agacaaattt atttctattt ttcctcctgg cctttgctaa aatgatgttt 60
ctcttggtgc ttgagaaatt tcagagagtt gtttagtata attgctgcaa atttagatca 120
ctcatatcat ttatgagact tggttttata cacttttaaa ataattgtcc aacagtgaca 180
ttcctgtgag taaaaatata gagaagtgtt accaaaatat aagcctttat taataaaaat 240
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ctccaccttt gagctacaga aaaaaaatcc tcaatctacc atataattga tatttgaaaa 360
aaaaacccat aaatattcta aagcttcag gggacccctg gaagccctaa gacttcttgg 420
aaaccctgac accatctgtg gaaatgcttc cgaggctatc tctcttctgg ccatttctgg 480
gcaaccggtt tggncata agggaagatg aaccacttnt gaggtccggc ttgngtgaa 540
gggggn 546

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<210> 6684

<211> 507

<212> DNA

<213> Homo sapiens

<400> 6684

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aacagtacca gtaaattctt taatgttgtc agagtaaag tctttatgcc gctcacagaa 60
gttcattcaa tcgtaccttt ctctccatat gctcttacgg gcttggttaa cagagagcca 120
atataaaact catcagagag ctgccatttt aagtggaaat ggtagcaacg gattattttt 180
aatggccac ctctttaaat ttatgcctaa gggtgtaatt ttttgaattt ttgtaatcag 240

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accttgatga tgaccgtgag cagtaagata taaataactc ccacatgctt agcggttccaa 300
 taatggaaca ctacacatac atggctaggg ttcaaagaaa cttgctctgt tacagggatt 360
 acctagaaag actcttctgc agttcaattt gtaaaattta gcagcaatag aatagactca 420
 taccatcaca ctagaggaag gncagcttag aactaagtcc atgancatca gangagaaat 480
 ggttacnggn cnttaaagag naagttc 507

<210> 6685

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6685

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 aaaagcagct ctccaggtga agctgctata ctttgtgcta aataacctta tgaactgagt 120
 atacagaata catataatat gcaagttacc tcaacagcaa aggagaagga gtagaatata 180
 gtttttgaag ataaaatctg gtcaagtgac aaattttgtt gctcaaaatt tctagccctt 240
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 cattttaatg gaagctgctt tttggaagaa ttctttttta tttcacattt ctttgatgtg 360
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 gtatacacac tttaaaaaca ccaaaccctt ggttataagt anaagggtca tgctggnttt 480
 taaattaata ttaggggaat ttaagctctt ctctggggg gctaaggnaa ctttgggtct 540
 caa 543

<210> 6686

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6686

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 aagtcagtta gaacgtgttg atctggttga taatgattat agattcaact atgtctaacc 120
 ctgtgtcctc ccgggagaga gtaaacagct tcccaccgtg ggagcgctgg gcacgtcagt 180
 tcacacgctg gcaggtccat taccaggagc tccaggcaca gagagtcctg ggctggccca 240
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 aagtatgagc aattcaccaa acaactaaat cacaatgact cttctgtctc tagtagctgc 360
 cccgcctttc ctcactggta ttcatttcaa gtcttaatga agtctagcca tcaattaaaa 420
 atagagtaac cttgcccttt cagcatgaaa ctgnnggggt ccntctgggtg gagtcntata 480
 aggnccctaa cttggctttt aggatctggn aagtgggaac tctaaaggct gagttttaa 539

<210> 6687

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6687

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 tacaggcatg tgccaccacg cctggctaata ttttgtattt ttagtagaga tgggggtttc 180
 accatgttgg ctaggctggc ctcgaactcc tgacctcagg tcatccaccc gcctcagcct 240
 ccctaagtgc tgtgattaca agcgtgttcc tggctctctt gtatctgcga tataactggg 300
 aactctgcct tagtcctgag caaggctttc tatcaggctc ccaggccact cagttacggt 360
 gttggagatt ttacctcaa attatgctca atgcaacact tnccatccat gtttctcatt 420
 ttccagtgn ctttgcctgt cttcgcccc ttaacttttt acgaagaaaa ctttaataatt 480
 tccttcattt aanaaggcct gggggatctt aaaantttcc cagaagcccc ttggnattc 539

<210> 6688

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6688

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agttaaaata ccttttatga agtcaactgc ttacatttac aagttgatca tgaaaacatc 60
agtaagacac aaaaacattt ccgatgctct cggcatgaag aattggtatc tggagagtag 120
caagttataa tagtaagggt tctgcaaaag attaaatagt ataaagaata ttagtatgcc 180
ttcaactggc agaaatagga ctgggcacat ggaaaaaggt cagaaataag agaagatgca 240
gatttgctca aaggctgcta ccagcactc ccatgctcac cccattccta agctcttccc 300
caagcatact ctcatatgc attggtgagg ggccagggtcc ctggagggtcc cagagacaca 360
aagttaaggg tagggaaaag ttcagcccca cactcccatc cactttgtag ggctttctcc 420
cttcagtctg ggggtcccca caaatgcccc agatggtggn aacagtcaca tggatttcta 480
agagaccnca tgacatgctt ggaagttgca aancactggn ctttaagttgc attatttgga 540
cc 542

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<210> 6689

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6689

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gcataaagct gttcattgtt ccagtacat ttattgaaaa aactaccctt ttctgtgga 60
atttcttttt agcttctgcc aacagtcagt tgataatatt tgtgtgggtc tatttctgag 120
ctctctattc tgtctcactg aattatattg ttatccttg gccaggaccc cactggtttg 180
acttatgtag ccttatatta aaattgggta gtgtgaattc tcaactttgt tcctcttttt 240
ccatttcaaa ttttgggggc tcttctagtt cacttgcctt tccacataag ttttagaatt 300
agcttgtcaa tatctacaaa aaatatgctg ggattttgat catgattaca ctgaatatat 360
atgtcacact ggggcaaact gacatcttaa caatattgag ctcaattgca ctaacttta 420
atgacctaca gattaaataa aagtaagata ccttcagggt ccagacttgc aaagatcnca 480
aagaanggtt aaaaatggca ngntccccgn aacctgaact ggatggtt 528

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<210> 6690

<211> 447

<212> DNA

<213> Homo sapiens

<400> 6690

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cccgacccat tcccacgggg gtcttccctt gggaacacca ctggcagatt tttatttctg   60
gctggataag cagacacctt aagtttaaaa caaagaggtc acctnttccc ccacgaaatg  120
cgatgtggtg gatatggcca cctcactgcc ctgagaccca acttgatctc ccaactccag  180
gtgcatgacc caggctntga ccaacagagc tgggtggagg ccgttcctgc agcactgggg  240
gtggccctga cctaaccacc actcctaate cttgaatgag gttcggtatt acaaaggctc  300
ttgtttctac ggcccagcgc anaggctgca ggagggtctt tgcctctgng caatgctcac  360
agntgcctng cccaagacag agacnagaag ggaagccaga ccggcagcca gcatgggggt  420
gcaaaaccng gaaggaaang nccaaca                                     447
    
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<210> 6691

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6691

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gctttttgtt ttttgtttgt tttagatgg agtctcactc tgtcaccag gctggagtga   60
agtgggtgcaa tctcggcca ctgcaacctc cgcctcctgg gttcaagcaa ttctcatgcc  120
tcagcctccc aagtagctgt gattacaggc gtgtgccacc acgcctagct aattttttgt  180
atttttacta gagacagggt ttcacatgt tggccaggct ggtcttgaac tcttaacctc  240
aggtgatctg cctgcttcag cctcccaaag tgctgagatt acagggtgtga gccactacac  300
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ctcataaatt tgagtngta aaagtgaac cgattncagc tcatgagccc taatataant 480
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<210> 6692

<211> 514

<212> DNA

<213> Homo sapiens

<400> 6692

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<210> 6693

<211> 524

<212> DNA

<213> Homo sapiens

<400> 6693

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 tgcagacttt accagacatt gaggctccat ctggctctaa ctggccacca tctagcaatc 420
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<210> 6694

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6694

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 caacttcaag ggtcccatg cttgggatgg cttggacacc aatggccaag cagggatgta 480
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<210> 6695

<211> 517

<212> DNA

<213> Homo sapiens

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<210> 6696

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6696

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ccagtactta cnaactnttc ctttgg 566
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<210> 6697

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6697

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<210> 6698

<211> 508

<212> DNA

<213> Homo sapiens

<400> 6698

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<210> 6699

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6699

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<210> 6700

<211> 555

<212> DNA

<213> Homo sapiens

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 aatcatatga aagaa 555

<210> 6701

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6701

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<211> 558

<212> DNA

<213> Homo sapiens

<400> 6702

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tacaggtaaa gatcaaggta gttataagtt attaaaaaat aattatggag actttttggc 180
agcagaaact acaattaaat cattcatatt ctttttaaaa ctagttttaa atctatatct 240
atctaccatg aaggtgtata cccttgtaaa ttgggccata tttcatttga tctacagaaa 300
gaggcataat attttggact tctatgaaat ttgtgtcaaa ttgacaacc ttattaaaag 360
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gcttaggccc gaaaaatn 558

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<210> 6703

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6703

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acaggcacgt gccaccacac ctggctaatt ttgnatttt tagcagagat ggggtttcac 180
cacattggcc agtcttggtt caaactcctg acctcgtgat ccactcacct cgacctncca 240
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<210> 6704



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冊

Separate Volume

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<211> 534

<212> DNA

<213> Homo sapiens

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aggcacacac cgccacgccc agctaatttt ttttgcatth ttagtacagt cggggtttca  180
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<211> 559

<212> DNA

<213> Homo sapiens

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<211> 547

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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| aaggctagaa aggagagaaa ggatttcaca gtatcagtga aaactgtttt atcatgaaac | 180 |
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| acttaaataca gattttacat aactttaagc accagcttga caatttaaag ntttatttca | 420 |
| gttttataaa atactcctgc ttgnaaggc aaagtgaatg tnaaaatgng aatgnaattt | 480 |
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| c | 541 |

<210> 6710

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6710

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| aatgcaaaat gtttccacta cgtaacaaaa gaaaatcagc attcccacat agtattagga | 180 |
| aaatatttgg ataatctgaa tttatagtaa aacaaagtga tctgaatttg tagtaaaaca | 240 |
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| gctaccttgg atggacaaaa tgggaaaacc tcttatctgc ttggttctcc tcctggaaat | 480 |
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<212> DNA

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<211> 554

<212> DNA

<213> Homo sapiens

<400> 6712

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gtctgcattc tcgcaaacga cttacaaagt acaagaaatg ttgcgtgtga gtattaggca 420
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<211> 534

<212> DNA

<213> Homo sapiens

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<211> 532

<212> DNA

<213> Homo sapiens

<400> 6714

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tgtcttattt ggagtaatgt ctgttcagat tctttgccta taattaaatt tggttgtctt 120

tttattgttt agttgtaaga attcctgata tatactggat aggtgatttg caagtatttt 180
 ctcccattct gtgggctttc atgtcacttt cttgatagtg tcccttgaaa agcacagaag 240
 tttttaattt ttatgaagtc cagttgtttt gttgttgttg ttacttgtag ttttagtggt 300
 atattagaaa ccattgcctg gtctatttat tccagcacca catgctaaaa agactattct 360
 ttgcttcatt ggattatcat ggaatctttg ttgaaaaatc aactgattgt aggctggccg 420
 tggtagctca catctgaaat cccagcactt tgggaagctn aaggtgggaa ttgagcccag 480
 gaagtaagt tggccttgac cntgataccc ttcanggtga actccacctg gg 532

<210> 6715

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6715

caacctgtgg ctggttattt tcactccctt ccttttcttg ctcttcttct gatgctactt 60
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 gaacagaatc tttcatttca atggtaggct tcaagtgaag atatctctca ggagactcca 180
 tgtgggctac tggcatgcct acatttcttg tatectctag tttagccatc ttaaagtttc 240
 ttgatccact catgcaagaa ggtatataaa acacatcttc tgcttgttca tttcctatat 300
 ttttttcttt tccgtctgca gccccagcta aaggatcaac atacttctgt ggaaaattct 360
 cagagatact ctcagaatcc caaggtgatt ctatatcttc ctcttgnctt aatcctaattg 420
 cggacatcat atcacttcta taattttggg cacttcatca acataagtca aaatggcatt 480
 atttggttgc tctaanggga gcccccttca ataatatcaa tncatttctn ttttttggca 540

<210> 6716

<211> 454

<212> DNA

<213> Homo sapiens

<400> 6716

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cagggttttg ttggctttta catgtttttc tttagataac tggtaatgac gcacattaca 60
aaggagactt ttctaaatct caagtccttt gctaattttt ctttggaca acagcacatt 120
ttcaatgcca aaccttctcc tacaacatac aaaggggaga tgccaaaact ctgaattctt 180
gtaacggatc ctgcaactag ttctatccag aagatggaga caatattccc tggagttgac 240
tgaacatgtg agaaggcaca gtcagaagg agaggaaggc tgagggcagt gaaatgagaa 300
cctatgcac acctgccctt tttacatgtt agtctatcct actatcccag gaattcactt 360
ctgctgtact tgagattcag ggataataat gtgactcctc ctcccacatt ctaagtaa 420
atgttaacta gatgagcatt tangncnntt nnan 454
```

<210> 6717

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6717

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cagcttcggg tgaatcactt taatgctgtt aacggcaagt ctgtaaaagg ttcaggacaa 60
agttcttttt tctttctttt ttaattataa aactaacagc tgtagaatc ttttttctt 120
ttttccttt tttcttttcc cagctacaaa atactctggg gagatgcatt ataatttaa 180
atatataata ttgcacaaac aaccaaagg ttaattaaac taaagaaata attacaaaga 240
gaaaaacccc atcccgtaa aaaaaagatt cagcattctc tccatcccac cccctcactg 300
aaggtttgaa gtggaagtga cctcactctc tcggtgtccc tgaccacga tccctttcac 360
tcattggtga gcacaccaga ttaggtcaag aatcaccaga gcagcatcgt gaagcaccag 420
gctcttcag agattcctgn agcccctcat ttccccaaaa ggtgcagctt taccagagt 480
ganggtgaaa gcccgaangc tggggctggc ttcaggaaga aaactttggc agaaaccnn 539
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<210> 6718

<211> 522

<212> DNA

<213> Homo sapiens

<400> 6718

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ggttatgaag agtcttgact tccctgagag tcaaaagccc cattaattgt tcatgtacca   60
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tgtgggtcan acaggcaacc aatcagggag gtctctggga actcagataa tgaaaatttt  180
ttcatgtata aaatccitaa tcaaaatgcg agtgggtgtca tcttgcaagt cagacactgc  240
aacttaaaat taatatacaa cagaaccttc agcagaagga acatccccgg gctgtgtggt  300
acaagtgacc ctgaactgtg gcctggactg ccgagacccc aggcggcagg ccggctccag  360
gccagcatcg agatcccagg gaaacaagct gttgctgcac cangatcccc aaggcccgga  420
nggacttcna aatgtgangg caaatcggca aagatgatgt ancacaaaga gggncattaa  480
caccataagg ngtaactgca caagggggct tcggcaanct ta                        522

```

<210> 6719

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6719

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accaagtaaa ggacaaactt gtactgcac ctacttttta gtaggcaact aaagcttaaa   60
attatttgat cagactttta aaacctctat gacaaacctt tacgagtttc tcaaagcgtg  120
gtcttttaggc tactgaaatt tccaaagttc ttctggaagg tttacctttt atatgacagc  180
aatatgagac tcaactgccac tagtcctaca gtaaattaaa actatatctg caacttcccc  240
cagacgtcaa atcaccatct aattattgta aggatttttt tccagataac aatagctgga  300
atgggggtgtt tcagggattt tttgttcacc ccagtgggta ttggtgaaat ttgcaccatt  360
tccttcctat ctccccagga ccacctatca agagaagccn tagtaaacgc tcaacaaatg  420
cttgataacc cgataaaact actttaatct gnttaagaaa aataacctaa agaattggaa  480
taagccttgg ccttggtaaa aatatcaact tttccttaaa aggctctcag tt          532

```

<210> 6720

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6720

```

agacggagtc tcgttctgtc gcccaggctg gagtgcagtg gcgcgatctt ggctcgctgc   60
aaaccccgcc tcccgggacc aagtgactct cctgcctcag tctcctgagt acctgggatt  120
acaggtgagt gccacaacat ccaactaatt ttttgtatTT ttaacagaga cggagtttca  180
ctgtgttagc cagaatagtc tctgtctcct gacctcgtga tccgcccacc tcagcctccc  240
aaagtgtggt gattacaggc ctgagccact gtgccagcc tcccatctac agactttaag  300
cagggtagca actctattct gaagttcctg cacattatac ggcatataaa ttgtattaca  360
aattaaaaca aaagtcattc taataaaaaa gtcacccaag taaacaaaag aagctgacat  420
tacacagtaa tgnatcataa attcttaatg cctaaaaact ggtgaatcaa tagatgtaag  480
tcagaataaa gaaaggcttg gttggtaccc attatttttag aaaggatcat aagg      534

```

<210> 6721

<211> 494

<212> DNA

<213> Homo sapiens

<400> 6721

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caaaaagaat gatacaactt ttattttcca tggattttgc agatactttt gctacatagt   60
ttatgtatTT ttatgagatt tttttcattt gtatgaagtt cattcagcct tatacaatTT  120
taaggtgata tgtttggtag tgtatctata atctttaaaa agtttagagt ttttggaatg  180
tacagtatat gaggtaaaaa caagattaca ttaaaaattg tttctcctc tgcactaatt  240
ttgcagtgag gctcaaattg caagtatact attaaatgac atttactatc aaaaatagga  300
agttcatttg aattactatg aaaaacataa gccactgtaa cttgacacag tggcacattt  360
taccatttta gacattcaac tatatataaa tctctgggct attacactca gactcatttg  420

```

tactgccaaa tgtggcactt taaagaagtt tctagaaaac natcgcaatc nctgnngttc 480
tgggnaangg tntc 494

<210> 6722

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6722

gatacggagt ctgtctccca ggctggagta cagtggcgtg atctcagctc atcggctcac 60
tgcaagctct gcctcccggg ttcacgcat tctcctgcct cagcctccca agtagctggg 120
actacgggcg cccgccacca cgcccggcta attttttttg tgtttttagt agagatgggg 180
cttcaccgtg ttagccagga tggctcgcgt ctcctgacct cgtgatccgc ttgcctcggc 240
ctcccaaaat gctgggatta caggtgtgag ccactgcgcc cggccccag tccactcatt 300
ttatacaaag gaaacaaagt ttcagaaatg tgtatcttgc tcaccagtcg gaagcagagt 360
ttgcctttga accatgtctc tggatcttcc ctagccatat accctactat aacatatatt 420
aggagcatca tctttaaaat acaagttgca accttctaaa ttgggaagaa aagcctgtag 480
caacttcttt atatctttta aagaaaacct ggggaggggg caagncccta agnggggaaa 540
ctatgaactc aaaaccttta a 561

<210> 6723

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6723

gcctgcatgg aaatattcat tcaatcagac cacactccat ttattaaggt ctgtactcag 60
gtgttacctc tgtctagagg ggacaaatgt atctaattctc tacaaggtaa tttgtaaaat 120
tgcagtaggc cagaaaagaa gtacttcatt tagaacacag acagacggac ccatgaggac 180

ttttagcaga cagacagagg gacccacgag gacttctgac tgacagatgg gtcactgtta 240
gttgcccata tcaaaagttg aaatgtcatg gttgtaaaat cataagaaaa agaagtaata 300
ataatgtttg taaaactaca cattaatgga taattaagtt aacaacatac aaccacattt 360
atattacata tgtgtttgta tatatatata tatatatitaa tactagtatc ttaaagactg 420
tacatacatc agctcatttt ttttctataa atccttatga nggaaaatct ggtatatcc 480
ccatttgnaa ctgntttinga agtaattatt ttgagaaagg tgaatnttag ctntatgcn 539

<210> 6724

<211> 400

<212> DNA

<213> Homo sapiens

<400> 6724

gaaaatgaaa atagaatatt tatttatgtt taacttaagt tactntcaat caaaaccagg 60
caatgattaa actggcaaca taaaaaggag ggagcacgag tcatggaggc ggnaagtggg 120
gcacctgcan acttgctctg ctccatcact ttttccaaga ggcccagaaa atgtaaggtc 180
atggctacat ccaagttaca atggtagtga ttacagccag gtagaaagg gtcactttt 240
gttcagagca aactctacat cattgaagag ggggatcagg tcttcagatt ccaaagttcc 300
taagtcaacg tttgttccctg gaagacagtc aaggaaatca gggaaacggg tctgttgggg 360
attgatgttc atggngttn gncngngtt ttctcngna 400

<210> 6725

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6725

gttttgtttt ttttgcagtt gtcagtcttc atgatccatt ctgtggcgag ctgggaaaaa 60
acgcagttgc taagtcaacg tctgaacagt gtgaggctcc tgaatatctc ccaggagtcc 120

ctgcgcaact gtcctgagca tgagatcatt gcacagagaa gacagtccac cgcgagcgc 180
 tgactatcta cagaggtctg agaggggagc gtcctcttg tgtttcctct ttttgccatg 240
 gtaatactga ttattggatt tgccttgatg ttgtttgttt gtcacaaagg aacctaggct 300
 tgtttgagtt gtaccttgga agcctttgct ggaagaacga aagagccttg ctgatccatg 360
 ctgagatttg ttggtgctgt tggatgtgtt agtggtttgg gtgctttgca ttttcccaac 420
 tgcctgagag gactccaagg atacatcttg cgaccctact cggnnccag tggacggacg 480
 ggaaagcagc tggttcaagg gtttgcacgg nggtgcatcg gaatctacgt cacttaanct 540
 ggactgngtg gcaaaaaa 558

<210> 6726

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6726

ggctcttcctt tgtcacctag gctggagtag agtggtgcaa tcacagctca ctgcagcctc 60
 cacatcctcc caccacagcc tccaagcag ctgggaaaag aggtgcacac caccacacca 120
 ggctaattct tttatTTTTT gtagagatgg ggtctcgctc tgttgctcag gctgggtctca 180
 aactcatgga ctcaagtgat cctccacct cagcttccca aagtgctgag attacagaca 240
 tgagccccag tgcctggcca aggttttct ttttcttcca aatcattcca tgcttactgt 300
 cagctaaaat ctctcctctg ttacatagct cctgtcttat atttgataa ttaaattatg 360
 gtacttaaac actctttaca tttatcttct ttacagtttc atctggttag gttggccatt 420
 gnttcaaccc attcctaaact atttccgnc ataagaaaga cgctaaggac ttcataaact 480
 ggcttgaanc gactgntctg anggttccg attacgcca acgtttattc atgcaaganc 540
 ccgngaggna 550

<210> 6727

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6727

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gcttggacat taaataacaa atgaaagcat catgataaat tgagacgcag agaccacaga 60
agaaagaaaa tgctttatat ggtaatactt cagcagtgct tttcctctga tttttgaatg 120
aggggggtcca tattttcac ttgcaactggg ccttgcaaat tctgcagctg gtcctgactg 180
ccaagagagg gatttagcca taaaatcagc aagggttggc cgtggggaag tggggtacag 240
gaagatagag gatttaggca tggctgcagg gttttaagct ggtggtactg ttggctggga 300
aatctaggaa atccagcatt gagggaccgg ctttgtgaat ctgttgtgga tgggctgagc 360
ctgcagtgac catggggcat cctgcctggg aggagggcga acagcaattc atcagcacag 420
gtggtgactg aggctcanga nggctaccc gagcgggaac tgcgggcang gatcttgggg 480
aagcagacat ttaggagatg agacaacagc ntggctaacc tcaaaccctt tttagataga 540
atgtcttcct tctn 554

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<210> 6728

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6728

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agaaagactt aaatTTtata aacatccaag aaaaaggag ggagaccaag tTTaataaaa 60
tTaatagatt tgTTtaggaag aataatcaat tttccatacc cctccaagc cattgttatt 120
tgatataaat cacagTTTTg tTaaaggaac tTTaagaata acttcgtcac taatgacaca 180
tcattTTTtg caaacaggaa aaatactaaa tTcagaggat catagTTTct gcttagtcag 240
ctctgacggc cacacaagag gttgttatga tttgcaattg agaagtagta ctatttggat 300
aggcttactc atggaaatgt ggaaggTTTT gcaagcctgt cagatgtggg actgcatacg 360
atttatgtaa attctggtct tcaatagTTT gtagacttag tggcaaccta gtaattgatt 420
tcctgnttcc ccatactac agctgtcact ggacgaggag gagaatgaac naaataaccag 480
gcactTTtcta ttctagcata aangetctgg aanccagtct gntggccttt ctggggggga 540

```

cctaattttt tttt

554

<210> 6729

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6729

gagacggagt cttgctttgt caccaggtt ggcgtgcagt ggcacgatct cggctcactg 60
 caagctccgc ctcccaggtt cacgccattc tctgcctca gcctctcgag tagctgggac 120
 tacaggcgcc cgccaccatg cccagctaatt tttttgtatt tttagtagag acagggtttc 180
 accatgttgg ccaggctggt ctggaactcc tgacctcgcg atccgcccac ctgggcctcc 240
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 tataactcta gctactgctt aagtcagata aaaaaaacac aaattacaat gacaatttac 360
 catgtgtctg ggcgtgttct aagcacatgt taatgcacaa aaattctatg aaatagggtg 420
 attattatct tcattttata gatacgtaaa ttgaggtaaa agccaagtgc atcgacttct 480
 tcagaatcac acaggtagga aaatgtccca gaagcctaca ctctttaaac caccacaact 540
 aggtatacct nagtcn 556

<210> 6730

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6730

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 caggcgctg ccaccatgcc tggctaattt tttttgtatt tttagtagag acagggtttc 180
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aaagtgttgg gattacaggc ttgagccaca gtgcccggcc agcatctgct tttaaacaga 300
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 agctatgtga agtgtttagaa ttccttcact ggcatgttgg tgagattttt ggagtataatc 480
 aagccactgg ctttaactag aacctncctt tttcaaactt ctctggatga aaaagcatca 540
 ggatatattt ncaa 554

<210> 6731

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6731

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 ggctggaatt canatatcca gagttctggt tacctacaac atctattctt tacgtagtag 180
 ctacaagca tcaaaggcca cctcacctg atgcttggcc ggatctatgc cctccaaaat 240
 agtcttcatg tctcctgct tgnctaaatc agccccctgct tgaagtaaaa catntgcaac 300
 atccgtatgt ccattttcac aagcataggt taaggctgtg tctcctgttg ctgtttagc 360
 atgcacatta gcgccagaag ccagcaaata ttttaaccaat tccaggngtc cctcctgaga 420
 agcctccatc aaagggtgtg agcaacccaa gttctatata aaccctggc ntaataagaa 480
 agtctgnaac tttagaaaat cctcccagga ggccaagtaa gagccgttcn tggggttntt 540
 tgg 543

<210> 6732

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6732

| | | | |
|-----------------------|-----------------------|-----------------------|-----|
| aatagtggaa atttttat | tacaaatgaa aagtcaaaat | actgctttga attgaccctt | 60 |
| aagtcacact ctgaattcat | accatgcagt taaaattttc | ccagttcatc aattaattcc | 120 |
| actgaaaaca gactaagctt | ctgtctatgg aagaagcaca | gaccagcttt aaccatgatg | 180 |
| acaatcactg gtaagactaa | gcaaaggaag tgactgtatc | tctgtttcaa attctttttc | 240 |
| ttcttgggca cattctccat | ggccatgtga aacttaaaac | aaagattgcg actgtcctgg | 300 |
| ccagagaaga aggttaaagc | tgtgtcatag agaattgcag | attatagttc taccttcac | 360 |
| ctgtgatatc catgtctctc | agagaggtct ggctacacca | ggatgttctt tgcgatagca | 420 |
| ttcaaaggcc ttaccttggt | cacatctggt acctttaggg | aatattctga gccaaagaaa | 480 |
| ggangcttcc atngnaacng | atgaattcgn aacttcattt | ccgggctcta attnancggc | 540 |
| aaacagtgg | | | 549 |

<210> 6733

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6733

| | | | | |
|-----------------------|-----------------------|------------------------|------------|-----|
| gagacagagt ttcgcttg | gtt gcccaggctg | gagtgcaatg gcgtgatctc | agctcaccgc | 60 |
| aacctccacc tcccagg | tcc aagcgattct | cttgccctcag cctcctgagc | agctgggac | 120 |
| acaggcacgc gccaccatgc | ccggccaatc cttgcatctt | tagtagagac ggcatctc | | 180 |
| cacgttggtc aggttgcc | ct cgaactccca | acctcaggtg atctgccac | ctcagcctcc | 240 |
| caaagtgttg ggattacag | g catgagccac | catgaccggc cagctactgt | ctttctttg | 300 |
| accttcctt tccggtttt | t gaagataaag | caggaagtaa tcttctctga | agatacttga | 360 |
| taaaaattcc caaaacaaca | aaacacatgc ttccacttca | ctgataaaaa atttaccgca | | 420 |
| gtttggcacc taagagtatg | acaacagcaa caaaaagtat | ttcnaaagaa gttaagaatt | | 480 |
| cttagcaaaa tagatgattc | acatcttcaa gtccttttgg | aatcagtta aaattaatcn | | 540 |
| tttcccantt tcan | | | | 554 |

<210> 6734

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6734

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aacacagtt catttttagt ttgtcgtggc aatacatgga aaaaaatcag gccactacta   60
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tttcaattag gttcaaaaat catggctctg taaatttcca aaacttttaa agtcttctca  180
tgtcttctta taatcgggca ttcagaggta cgtgttggtt ctaatagctt tggtagaaac  240
atgctgaaaa tagaaatgaa tataaaatgc cttgtcttta ggctaatttg gtatggatta  300
gtaaggcctg agtgaactgg aaattagtag atttcttgaa ataatacaaa tgaatgtgag  360
acacatgggt agaacagcag attcagaaaa aaaggttaag tattgtagtc ccaagtttta  420
taaaagacat caagtaaggc cagcaataga ggaatcaagt tcttttcggg ttccctgggg  480
gggattncta tcactttacc gtcatgaact gggattgnaa aagngaaagg ccttgacttg  540
gtttggagg                                     549

```

<210> 6735

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6735

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gtctgctgtg ggcaaaagat cctctgttg cctctgacct ctcctcccgc tgatgccaat   60
gacaggaaac cagagactct ctgcctcaga gactacaggg agagaggag gatgggcca  120
aggtgtattc ctcttacgat gccaccctt aactcacctg gcattgcctg agggcccttg  180
gctctcagtc tgcattgatt ggagctggga ccgaagcccc cattccagaa accggaccag  240
gagataggca aacaagaaga agccacccaa tgtgagaaag aaataagcaa cgggggtgat  300
gtccgtcttt atgccagca aagccagccc cagtaggaag gaggcgcagc acaggaggag  360

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aagcggcttc tcagtctccc cagtaagtgc attggcacca tggccccctcc caggcttctg 420
 caaaaagaca cacagctatt gggntacac tagcaattgg tgtcatggct gtgtcagatc 480
 caaagtaccc atatgaaaat tcttggttgg gttctaggtc ttcaatctca aataatcatc 540
 tggagan 547

<210> 6736

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6736

atgtgaacat gttgcattta taaagaaatg tcacacgtac acacagaaag gtcatatcaa 60
 agcaggtaaa aattaagaca acatatttct ccaaaaacca gtctgacatc ttataatacc 120
 agaaatatac acacacttca aacctgggaa atcatcctat gaatctgctc tgaccaatat 180
 ggtagccact aatacctgaa atatggagta accaagtaac aaatttttaa atttaaaaact 240
 gatactcatt tcagttattg gaaaactttt aagcacattt agaccaacat gggtatgtaa 300
 atttactttg caaattttaga ttttatgaaa tctaaacatg gattaagtat tatcagtaaa 360
 acttttagtn ctcaactgag atatgcaaac cagacagact tagtttcata agaatgaaaa 420
 atatcttact ggaataatat ctncatgna ttgnggtnaa tatattaataa ttaatttacc 480
 ttggttttan cgnggntact aga 503

<210> 6737

<211> 508

<212> DNA

<213> Homo sapiens

<400> 6737

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ggattacagg catgtgccac catgcctgac taatitttgt atttttagta aagtctgggg 180
 tccactatgt tgaccaggct ggtcgcaaac ccccgacctc aagtgatctg cccacctcgg 240
 tcttcctaag tgctgggatt acaggcgtga gttacgnac ccagcctgga agtaaggaca 300
 gctgtgttct aatgccagct ctgcccacc agctgcacaa ccacggggca agtcatgcca 360
 cccgtcaagc gttcagattt ttcaagctag atgaaggaaa aatgactgac ttcccaagaa 420
 gtccttgcaa ctctatatat ttaaagcttc tctgnacttt caaaaangaa cennnancaa 480
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<210> 6738

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6738

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 tatagcctgc caccatgccc ggtaatttt tgtattttta gtagagacgg ggtttcgcca 180
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 aagtgtctggg attacaagca tgagccaccg cgcccagcca aggacatta cttcttaagt 300
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 taaagaagac atccatgagg accaatgtca cacctgccag gaaacactcc ccagtcacct 420
 gaagggcaaa ngctctggctt tccaaaaacc tggggcctgg tctttttggc attctaattg 480
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<210> 6739

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6739

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acagggtgtgt gccaccatac ctggctaatt tttgtagttt tagtagagat ggggtctcac  180
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caaagtgctg ggattacagg cgtgaaccac cacacccggc ccgtcttaac agtttctata  300
ctccccaaga gtgagttgca aatgaactaa aagtcaagct tgtaagagct atttatattc  360
cccaactggg aatggacca taagtatagt ggctgcatct tattcacctc tgtaagcccg  420
aacctgacac attgctgggtg cagtacatac ccangnga atgtgctgac tttttaaaga  480
atttggaatn caagggccag tgtcaaattt caatctaaga actggattca ttggcnaaga  540
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<210> 6740

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6740

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accagtttac tcaattaaca ggtcagcata taaaacctgg atcttctgac ccttgattgt   60
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cctaaggaag gaaacacaga agaagggaac agcttcctca cctataaaat aataaaaatg  180
tggtcttttt gacatccttg agctaaataa ggtcgcaagg tggagccac tgcccagaag  240
ttttacccaa atagtctaac atagaaatag gcctggaaac aggaggagta acataaattt  300
aaggcttacc agtgataaaa gtaccttcta ttatcatttg atcctcacta ctcagttaag  360
aattatctct atttttacat attttttaaa aaggcatcag tgaaataatg tgattacctt  420
caaggncacc cactnggtaa atggcttgga caaatcctca ttaaccctac tatacccttt  480
tattntgaga aagtcagagt anctnggtgg aagcctgact atttaatacg gatccaanat  540
ggaaatccaa atc                                     553

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<210> 6741

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6741

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ggcaggaaaa aaaaacccaa gggaacaaat acaaacagca cagcgttccc cacagttctc  120
tgctctgctc tcctgcgagc cggggaagga gaggggcagc ctgagctcgg gcgggggctg  180
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ctcgcgtcc tgccggtcgc tcccaggcct gtccaggteg ggaccctccc gtacgttgct  300
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gttgggtggg atgggcaccg aggagtgtac ccccgttgtg gcacctgagg ctcgagtgcc  420
gccttctatc tggttgcttc tggcactaga gaacncaacc atnttcaagg gtcccacgct  480
tgggccaagc caggcattag cacaangnaa cttgttgggt aagtgaagtg acttcccttg  540
agcctn                                         546

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<210> 6742

<211> 499

<212> DNA

<213> Homo sapiens

<400> 6742

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gtctttccca ttttcgggaa gagtaggcct gggatttggt ttaaaaggta atttattatg   60
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gagaaagaca catacaggcc actgtttaag cctagaaaac atcccttatg ggagggtttc  180
ttaaccttgg cactatcaac aattcaggac agaacattct tttgtgggga cagtccagtg  240
cattgtagaa tgttcagcag catccttggc ctctaccac tagaggctgg tagctccaag  300
tcttgctgta acaacaaaa atgtctccaa acattgccaa aagccccttc tggagtaaaa  360

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tagcccaaaa ttgagaacca ctgcttaagg ggggaaaaaa agaaaaaaa gticccttan 420
aatgatgaan ggcaaccctt ggcanggtca gaaaaantgg ggccanatcc accctggctt 480
ttgggttcan gcncctggg 499

<210> 6743

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6743

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catacttaga aacatcctgt agaatcaaag aaaaatgctt cctgcctttg tacagaaaat 180
taagagattt ttcaaagtga agaaaagcaa ttttaattacc attaaacaag gtttaactgc 240
tgtgggcaat cattctctgc ttgagaagca taatttact tgaaagaaac cagattggcc 300
cccgccctc ttttggctta tcctcagcaa gaagcgactg ggaacaactg actcttgggt 360
gagctgtcca gatagttaga aacatatcac acagcagttt aagggacccc agggggggca 420
gggaaacccc agaatcaggc cactcctgtc cttgctcctg tctgctgctc ggaaggggccc 480
cccacagcag aaacatgtga tgcctcctc ttctttggcc ttntacagaa gggcagacat 540
gggtntn 547

<210> 6744

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6744

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tgcaatggtc tttatcaaaa ctacaaaagc cagcacacta tttcaatatg tattcagttg 180
 ttcatatcta aatacctcat tagctatgaa acaaaccaaa tataaatgct gaatatacag 240
 tacatagcaa cagattcttc acagaagaaa acaatgaaag actaattttc tacaatatgt 300
 tacctgttca ttagttcttc aataacatta cttaggctat ttcaaggata acaaaatgta 360
 tgcgccacta cccatgtttt cgcaacattt tttacctagg ttctaaaggg gaataaatga 420
 gggatgccgt ataggcagaa ttatTTTTat aaactttcgg angttcnttt ggggtggggca 480
 tcttacatga atatatggga ccagaacngg atgtaccctt aagcattagt nggtctatgn 540
 aatttgctat atgg 554

<210> 6745

<211> 516

<212> DNA

<213> Homo sapiens

<400> 6745

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 gatgattgat gccccagttc acaaaccata tctTTTTctc tttcagcaaa tcctggagcc 120
 ccaagagggc tgcagcctga gtgaagtggg gacatcagaa cctgccctcc acaccaaca 180
 gctggactgc agcctcctgc aaggcctggg ggatgtgcct gacctctctc tgggacagag 240
 tccgttccat gtggcggtac gtgatgcggg agcagtggct ggtcttgtgc gtcctacaga 300
 gaggaagaga acacaggtga gtgcgggatg aacaaggctg tgcctgaagg agcagtgtgg 360
 cttgccctgg ccagatctcc ccaactgcag tggagaactg aggttggaat ccaggtacca 420
 tttaccgntn acaatctgna tcttatcagg gggaaaangt gacagtcagg ggaacattcg 480
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<210> 6746

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6746

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 tgggattaca ggcacgcacc accacacctg gctaattttt gtattcttac tagagatgtg 180
 gtttcatcat attgatcagg ctggtctcga actcctgaca tcatgatcca cccacctcgg 240
 cctcccaaag tgctgggatt acaggcgtga gccactgcgc ccggcccatt aatcttatct 300
 tttaaactcat atcaacagtt ctaaaaaaag acttggattt ttatttggtc tagtgggtat 360
 tgntctagaa gcaagactcc tctaattgat cataacacca agcctacccc ttagctgaca 420
 agtcaaattgg gtggtttttg gtggntcaaa tncaggaaga caccctttgg gatacattga 480
 ctaantagcc aagaataana aggcagggga aagaaattat cttaaatttt ttggctaaac 540
 ctn 543

<210> 6747

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6747

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 cttttaccat atgttgttgt caaatacatt ttataaatat tggcttagat gagatttaag 120
 ctcatctagc tttaggtgct taagagtcca ccagacctgg ccggagcagt ggctcatgtc 180
 tataatctca gcactttggg aggccgaagc gggaagactg cttgagacca ggagttcaag 240
 accattcaaa gtggtgagac tgcacgcatg agccaccatg ctccagccaga ttttgtttct 300
 ttgtgaacct gcactgctgt taggaaactg taagtcttat cacctcccga atctacaaaa 360
 gcctcttgtt aggtatcttc accagcaagg cttggccaat agcggataga tccttctctg 420
 gnggcaacca tgacagcaac agncttaaaa caggatcaca ccattagcat tencattaaa 480
 agaggaaccc aaaanccacc agtctgatgg caatggatcc aaggaaccgg gncanttact 540
 ntttggacca na 552

<210> 6748

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6748

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tcaacagtga attggactta aattgtcttc tgtttacaat ggctgaaatc catttaaatt  180
ctcttggtgg tcctttgttg attcctggag atttttgtac tgtacttgcc tcattcctac  240
acatacttta attgaataaa atgggagaat gcattttccc aagtgcctaa agtgactgtg  300
gaaataacca gggagagtta ctattttcag tctacaacat atcatattca gatacatatc  360
attgtggaca taatgaatgg gaattctata tacctataat tagtcaacat aattttcttt  420
tcctccttat ataatgattt tatctgagca ccaagggggt cctttacatc aaataaactt  480
tatgacaatc caccaggcca atttactacc tcaattangg catggtacat aaaaggnga   539
    
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<210> 6749

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6749

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caagatctgc ctcccggtt cagccattc tcctgcctca gcctcccag tagctgggac  120
tacaggcgcc tgccacctcg accggctaatt tttttgtatt tttagtagag atggggtttt  180
caccgtgcta gccaggatgg tctcgatctc ctgacctcgt ggatccacct gcttcagtct  240
cccaaagtgc tgggattaca ggcgtgagct accgcacctg gcctacaaat acataatttt  300
aattaacaac ttcatttgtc tgaaaccttt ttgtctaatt tgtaggata tgaggctaatt  360
    
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atgcttaata acatgtttta catgtttgca acaaactgaa cataaacaga aaatccacat 420
 ctttgaaaag agctaaacac aaagaatgaa tttacgtgag aaaaagtaat ggntttcant 480
 aaaaagcagt caatgctttc ttntgngctt ggaaaatatn tnaagcctan ttttactggt 540
 ttaa 544

<210> 6750

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6750

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 caggcgtgag ccactgcgcc tgcccttggt acgattttta aaagcttacc tggtttagt 180
 ttaagcctca gatgggtggt accccagata ttgcaagtgt cagctctttt ggctgtttcc 240
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 ggatgttgat tggcttggnt tgtaacgggt tttcatgag aaacatcctt tggctactan 480
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 tna 543

<210> 6751

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6751

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caacttccgc ctccctagtt caagtgattc tagtgcctca gcctcccaag tagctgggat 120
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 tcaaaccatc atcaacactc tatggggaca taaggcttaa caaagaactt cacttaagtc 420
 tatggtcctt ctcccaaact taatgccgga tctcagcctc atcacatatt gaagactgna 480
 tcagaaaatg gtaagtgcta gcaccaatag gcattangca gtagactcan nttganggga 540
 gcttggn 547

<210> 6752

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6752

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 aaagtggat tacagtaagc ttcttgggca tgacttactc acagactatc tactctaaaa 180
 tctaaaagac cctttttaaa agcgggatga ggtgactctt ctaatttagt cagcatgagc 240
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 aagcactata caaaaatttc catcggttat tctcatggt cacttttaca agatgggttg 360
 tteccaactg gccaaatgac ttccttggt acccactgta tgcactatct cccttccgac 420
 agtgacgtcc ccttgnactc tgtcaagtag gattaaaact tttcagactc aagnattttt 480
 ccttttctcg gggttttcag anantattaa ctggtctttt aaaaggntta aaggccaaaa 540
 tntt 544

<210> 6753

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6753

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tttaaagaaa aagctttcaa aacatctgag ttagcttaat acacagagac cctgaaatat  180
atgggaacta catattttaa atgcttgtag ttcctgctct aataatgtct tctttaaacg  240
gaatccagca taaaagggat tgaaatgtat aaggatcatga tgcaaagtct ttggagatag  300
tgaaactgat ctgcacaaca tggaaaaaga tgtcatgtgc acagaagttc tgcaaggatt  360
cactgagcca tctgggcttc catggcttgt gctgtccatt ctggtgctgg ttgactaatt  420
ttctncaaaa gggtattcct tggaacaag tgattggact gcttatccac gttggcaggc  480
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<210> 6754

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6754

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atcatacagt ttccataaat ggtcttattt tccttttctg gttgaaattt aacccaaaga  180
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gttggggcca ggtaggcca aaacttaatg cattaatgta aacattatca gtatgtttac  420
gtacctggtg ccataccaca cagaagcttt ccaattccta ccacaggag gttttcttct  480
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acactggatt

550

<210> 6755

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6755

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<210> 6756

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6756

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tatacttggt ctacatgtg tacattaatc cagaaatatg cattaaaaca ctgcacagct 180
ctgtgaactt gatgcactga gatttataaa tagtcttctg aaaatccgt tatattcaaa 240
gacattatgc taaggcaaaa tgtaagtaat taaggaggagg tgacgaattg gaggtaataa 300
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taaaaaatag tcatgtagaa aattataaat aatgactaag gtgaaaaaga aaagtgaag 360
 tactgaatgg gtagaaaggg aactcaattt tggttctaag cattagtatg aaaagggcct 420
 aatgccataa taacccatt ccaatgctta ctacctgngg gtactggtaa ggtactatac 480
 ttcattaagc cttacnttctn tggaccgna aaatggcata ataggatctt ctgcaaaggc 540
 tatectgggtt tnggaac 557

<210> 6757

<211> 459

<212> DNA

<213> Homo sapiens

<400> 6757

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 aatggtctan aaagcatcac ttcattgctat gggttgaact gtgccctcta ataacgttgt 180
 tgaagtctaa ccaccagtgc cttanaatgn gacctaat tggaaataggg ttgttgcaga 240
 tataattagt taagatgagg ncatactggt gtaggggtggg cccctaattc aatatgactg 300
 ggtatcctca caagaagaca gcaatgtgaa gaaacaggga gaatgccccca tgaaaaggga 360
 acnnagattg gactggtgca ttacaatcca nggacatcaa agatgggttan cctnatgacn 420
 gcttganaa aggttgggaat agatcttcct taaagctct 459

<210> 6758

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6758

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ttacaggtgc ctgccatcac acctggctaa tttttgtatt tttagtagag acagggtttc 180
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caaagtgtg ggattacagg cgtgagccac tgcgcctggc tcanattctc ctttcttaat 300
attcacatat cacttggttat aaacttttgc aatctacaga aggagcagga tataatacaa 360
aaaaactaaa aaaaaaagtt aaaaaataa aaataaactt tggggataat tagataatct 420
aagaaattct ttnagnggtt ttncctaactg ctggggatng ttaaaggga aagaagctca 480
tnggaaattg aattnggtgc ttgtggactg acaagggtta gttgggtnc taatggagga 540
cttttanggc 550

<210> 6759

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6759

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tgaaaagtga ttaggaagtt ctaaaaattt tagtcattta tagagtatct taaaaatcct 180
tatcaagtaa gatattaact ttacctttat aaatctttgt gtgaaatgaa aaaaaaatca 240
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gattttcatc catttattca aaaacctttt aagttcaact gtccaattta agacagagtg 360
aagacatttt tgagtatctg aactaagcat tgncttgact gaaacgaagt aagaactcaa 420
tgagagcctt gngggcctcc agtcatgcct tttccganat agggacttca tctttggngg 480
catagcctg ctatggctaa aagggncccc ttanggatga gtccaaatt tttcaggaan 540
ctgcn 545

<210> 6760

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6760

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ctttctataa ccttgaaaga atacctgccc ttctctaaaa tgattcaact agggctgctt   60
accaggccca cagaaagccc tgctgccagc cggccttcaa aatggattaa ggatttggag  120
ttctcttcat ttctccactc acaggatcaa aggggtgcggg cgaggactgg gaagcggggg  180
aggaaatgca agatggaaca ggccccaagt ttttaactgg cataagagca actgtggttc  240
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tgagaaataa acacaactgc cagaaagcag cacgcttcag ctactgctaa tcccaggcta  360
caagacaagc aggaaatcag aggtgccctg tgatgngttt tccaaaaagc gtcagcaagt  420
acacagagca aggaggaagg ggacagtcca atgcaaatnc ccaattgggg ttcanaacag  480
ggattaaagc ttgaacccca gacagcccca accgagggcc cccaatgctc atcttagcct  540
tgantcctg                                     549

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<210> 6761

<211> 428

<212> DNA

<213> Homo sapiens

<400> 6761

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gaaagtttac atgtattctt taattctaga caccgnacaa cangacaac caattacaat   60
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tttccacaat gtcaactgca tgctgcattt tcatttctat agagcagaca agcttccaga  180
ctgcagacca agtttcttgg gtaataatac tactatcttg atcatgacca caggaaacca  240
attttatatt ccctgtacta tagagatgag acattatttg gtgtatatga aactcttcag  300
tggtggtgtt caagaatatt caaatagtag ctgaaaatag ggtttgctag agcagtcnc  360
atatttcatt aaaagaaaaa tgcccagtca aaacatttag aantaaatnt ntngnncagc  420
ctttccct                                     428

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<210> 6762

<211> 538

<212> DNA

<213> Homo sapiens

<400> 6762

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gagaaggagt cttactctgt tgcccagggt ggagtgcagt tgcacgatct cggctcactg   60
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tacaggtgca tgtcaccgca cccaactaat ttttgatatt ttaggacaaa atttttgtat  180
atTTTTtgca tgtTTTTgt ataattttgt atttttgtat atttcacat gttggtcagg  240
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acaggcatga gccaccacgc ctggcctaata atttttatac tatacaagta taaagtgtca  360
tacctatatg tgcatgtgtt taaggataaa atngatata ctngtataaa cacctgaaat  420
aataaatacc gggccttata catatttgac ctttgaatt aaaagacatg cttaaaaaaa  480
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<210> 6763

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6763

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gagacagagt ctactctgt cgcccagggt ggaatgcaat agtgccatct cagctcactg   60
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tacaggaacc ggccatcatg cccagctaata ttttggttt ttgtagagat ggagtttcac  180
catgttggcc aggctggtct tgaactcctg acctcaggtg atccacctgc ctacgcctcc  240
caaagtgttg ggattacagg cgtgagccac tgttcccggc aataatgcat atttttcaaa  300
aacagcattt aacagtgggc atctgacaaa tgtcagtttt ctttactgg gattttccac  360
atgatctgtg tattggtgag gagcctctta attgaaagtg acagaaaccc agcatgtagt  420

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ancttaggca caaaccggat taatgggcn aggtaaggaa nggctaanag gaactggcta 480
tgaaggatgc tgaataggaa cttcctgntg gcagtacttn tggccccata cttgggggncc 540
ttcaacttcc aagg 554

<210> 6764

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6764

ggcatgaagg gcatgatagt ttatttttaaa aaattgtacc acactgatca tgatgaccag 60
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atgtttcaat aggaccaaga acgttagaga ataaagatct tagatgaaaa tgaacactaa 180
taattctagt gtcctcccc atagaattaa tgtaaattccc gtatgaatca gtggcattat 240
aatgttatgt ggttatgaag aatgaaattt ctcttagaag taggcagcat gaattttatac 300
ttacataagt ataacttata cttccttgta ctttcattctt tagtttttat aatttaagct 360
atgtccaccc tggctaaagt acaatcatac aatatacctc agataatttc catgctacca 420
ttgccaagtt taagtgattt tactattaaa aaaaaaaaaa tccaaccacc atcaaaaatta 480
agangccaat taaaggaant tttaaattcat ttggaaagca tngggcctaa ttggccaatc 540
ngactcaacc t 551

<210> 6765

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6765

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tacaggcacc cgccaccaca cctggctaatt tttttgngtt tttagtagag acggggtttc 180
 agcgtgttag ccaggatggt cttgatctcc tgacctcatg atctgcccgc ctcggcctcc 240
 caaagtgctg ggattacagg cgtgagccac cgcgcccaga tgacctaga atatgtttta 300
 ttacactct cttacactgn atattaggag tgggaggcat agagatcagt tcaggttttg 360
 ccaacagaca gaaccagggt cacacccgtc acttccacac actggtgatg ngctcaagga 420
 agctgcttat ctncattaa ggccatccat tcaactgcaa aatgggggat aataccctta 480
 actgggctgg ttacaagttt taaatgnant aaaaaaaaaat agcctcggat ttgncataa 540
 tac 543

<210> 6766

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6766

actgtaaatt aatggacatt ctgattttta tatcaagctc atgaactctg taaatatgaa 60
 cctgagacaa aaattaggta actgtagaaa tactaggcta cagggtctat aagtttcaga 120
 ctctttacta tggtaaacta ctaagaaatg caatctctat cctgagaggt cccttttagag 180
 acagcaagtc tcctttaccc caagagagga gatactcag tatcatcatt agcaatctct 240
 tcctttttga aatctctaga gtagaaagaa gcaacaacga aatgacaaaa ttctaattct 300
 gactctgctg tgctagcact taatcctaag caaattgctc tatctccctt ggtttcattt 360
 ttcttatgtg taaaatagag aaactggctg gtgcagtggc tcacgcccgg cctattatgc 420
 tattcttgat gtgcatggat aactgaaagc agactacttt ctaaaaatat tacttgagtt 480
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 accc 544

<210> 6767

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6767

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ctgcgtgaaa tcattaagga aaaccttgaa cactcaaagc ttcaaagtga tccagggaaa  180
aaaaaattct ttgacagtct acataacaac tattgcatat atagtgatgc tacctgtcac  240
attgcaaggc ttacaaatat atatatacgg gccttatcca gctgtggggg tctgttctgt  300
gagaacatct cttcatgggt tgcaagaatc ttcagcaata aaaaatagtc ttggatttaa  360
gcgctgatat acctaaagag aaattctagg cttaaagtga aagaaaangg aagtccaacc  420
cttagtctca tgtataacag ttggttttaa tctttcttnc ttaaaaatcc ttatentaan  480
ccattttggg cataggcttt ttttttttaa acttgnctga atagggccca agncccttgg  540
ctttataaga acctttangt cn                                           562
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<210> 6768

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6768

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gtagagacag gatatcccta tgtagtcag gctggtcttc tcaaagtcct gggctcaagc   60
aatcctccca gccttccaaa gtgctgggat cataggcatg agccattgta cccagcccat  120
tctctttttt taatagaagc ttattattcc actggaaagc tgtatcataa tttatgtaac  180
cagttatatt tagattgttt ggtccttttt ttttttttaa cagataatac cataatgaca  240
atctagtcca tatgttattc tgcatgtaca agagtatctg taggataaat tcccggaagt  300
ggaatttctg gggcaaaaga tatatatatg ccaaagatat tgccaaattg aattccatac  360
tttcaccaag acagttttat aattttatta tttttgccag ctcatagatt ttaaaaaagg  420
cttctcangg gaagttttaa tttgccattt aattttgaag tggantggag aaatctttcc  480
tatatttcaa aggatgggta aggtaat taaatttcc atgggaaaaa ttttaatcca  540
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cctttcctaa aaggggnngg tnaanctatt ttcttaattg ggggcc

586

<210> 6769

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6769

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gtgccagcta tcacattcaa atttgaatcc taggatgtga aggccataat aaaagcagaa 120
aacacttttt cccaaaaacc acaataaata attttcaaac cagacattgt acaattttta 180
attatttttc aagtaaaatc tacctacatg gtaaatttca tttattcagg tgaaattaag 240
tctttgttgg tgagccttta gccacaagaa gagaacaag taatacccaa gtgtagtagg 300
gaatagagta actttgtctc ccctaatagcc atgcccatta gctggggtaa gcctgacaat 360
gtcttgcccc ttaccatggg caagccccca ctcaggagcc cccgcctgc tccatcaagc 420
catgggtcat gccacaggc atgtccaatg tcigggaccc atactgggct gaaaactggc 480
atcctgtgaa gaggaaggtc tgcnngtcat caaagtgggc aaccctttg agacagccat 540
ggagggtcag aat 553

<210> 6770

<211> 529

<212> DNA

<213> Homo sapiens

<400> 6770

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ggcgcaatct cggctctctg caacctccgc ctcccagggt caagccattc tcctgcctta 120
gcctcccag tagctgggat tacaggcatg caccaccacg cccggctaatt tttgtatttt 180
tagtagagac agtgtttctc catgttggtc aggctggtct ggaactctcg acctcaggtg 240

atccgcccgc ctcagcctcc caaagtgtg ggattacaga cgtgaaccac cgngtccggc 300
ccacaagcta aattttgaag tattagatcc ttctttaaac ttttgctctt cggattgtca 360
atgtcaaaga tagtttccag ggggaccaa ttgggccccca aaactggtta ttaaaataaa 420
gccttaactt ttattggtgn gcatttcttt ctgaaaacaa ttttnactng nttaccgtgg 480
ttagnaaaaa taagcttctg gctattggaa ttttaaaact caaantnt 529

<210> 6771

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6771

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aacctcaaaa tccgggactt aagtgatcct cctgcctcag cttgccaac tgctaggatt 120
attgaggtga tgggtgcac tcaactccat ttttttcac agccttttg tcaaggactg 180
atgagccctg ctttctggaa acattcttga taatcatgac attaattttc tgattcccct 240
ctaacctctg aactccccctc tcacttttct aaagcgcttt ctttctctgc taatctgtca 300
gggcccagaa acaaatcaac aggagtccc attggagtgg tatgaaaaga gagatgcatt 360
tcagggaagg gtttagatac gtgaggtcca tagtggcttt actaagcatt aatgggtgg 420
gaaanggaga aagcaaagtc acaatccgat ncaaatctag aagaaaatcn tagttggtgg 480
attaacaagt tgtnggccct tgcaatgtac ccgaaaata atgccttact tccaaagcat 540
ggctttcaaa cctactt 557

<210> 6772

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6772

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 tactggcatg caccaccatg ccctgctaata ttttatattt ttagtagaga cgagggtttca 180
 ccatgttgcc caggctgac tcaaaaacgt ccgcctcggc tcaagtgata tgcctgcctt 240
 ggcctcccaa agtgctgaga ttacaggcgt gagcccttgt gccagccac ctttcttaac 300
 aaagtcaaaa aaaaatcttc cttcttagaa gtattgccca agataaaatg aacatcaagt 360
 ccatgtaaat taggctgggt tcaaacttgg ctaaagaaac tcttttctat ctttaatttt 420
 ctacgtgggt gacagaagga nggaaaaatg aanaaggaaa gcaagtgcctt gggtgggtgng 480
 aaccttttgc ttttttttcc tggnaaaggc ttctgggggtt tggggtcctt ggnctacctt 540
 ggangccnct gggggtaana ctt 563

<210> 6773

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6773

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 caacctctgc ctctgggtt caagcgattc tctgcctca gcctcctgag tggctgggac 120
 tacagggtgca cgccagcaca cccggctaata ttttgtattc tgaatagaga cgggggtttca 180
 ccatattgggt caggctgggt tcgaactcct gacctcaggc gatccgcctg cctcggcctc 240
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 gctatccaac atctattttc ccattttctg atagaagcaa ccagttttg caaatgaaaa 360
 taacttatct ccataggctg ggtaaacat ttactcaaa ctgggacatt tgaaccgttt 420
 gnccatggaa tttgaatctc aagcngaaaa agaccgaaaa agggttgaag ttggcttata 480
 caccggggga cctnttcag aaatgtgggt ttaagntcct tcaacaagaa gcccaaanct 540
 ggccaanggt ccacct 556

<210> 6774

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6774

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aagacagggt ctccactgt caccaggtt ggggcagtgg tgtaatcata gttcactgcg 60
cccctgaact cctggcctca agcaatcctc ccaagtcagc ctccagagta gttgggacta 120
taggcacaca caaccacacc cggctaacac taggtatttc taacatactg atgcacattg 180
tttgaaaatt aatcttaggg ccgggcacag tggctcacac ctgtaatccc agcattctgg 240
ggggccgagg cgggtggatc acttgaggtc aggagtgcga gaccagcctg gccaacatgg 300
tgaaacccca tctctactaa aaatacaaaa attagtcggg catggtggca tgcacctgca 360
atcccagcta tctgagaggc agagacaggt gaaccagga ggcagatgtt gcagtgagct 420
gagattacac cactgnattc cagcctaagg ggacagaagc gaggactccg ncttnaaata 480
antaaataaa gtaagtaagt aagtaaactt tangaagttt ngctangcat tggaacttcc 540
gtctgng 547

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<210> 6775

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6775

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aagaaagatg atctcgctat gctgcctagg ctggccttga acccctgggc tcaagcaatc 60
ctgctacact atgaggagtt gcaaatacag gtatgtgccca ccacatccag cttcttaaaa 120
ttttaatctc ttttgcttac attatcaatc tgtttttgca tactgtctac tttttccctt 180
aaagccctca gcacgttaat catagtttta aaaaaatacc tggctctgatt actccaacac 240
tcctgccacg actgactctg gttctaagtc ttgttcagtc tcttcaaact gcattttctg 300
ccttttaagt atgctttgta attttctgtt gataggtaga catgatacac tgggtaaaag 360
gaattgcagt aaacagggtt ttcacctgt tttcaggtgt tggggtggga aaagtgttct 420

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atgatactat gagcagggct caagtcttgc tgaacttgng tccctgggct atgaacttnc 480
caagtgcitt tcaactttcc ccaactgcat taagggggac agaataatncn gaagtactag 540
nggtanggat ttcc 554

<210> 6776

<211> 494

<212> DNA

<213> Homo sapiens

<400> 6776

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cctgggttca cgccattccc ctgcttcagc cttccgagca gctgggacca caggcaccgc 120
ccaccatgcc tggctaattt tttgtatatt tagtagaggc agggtttcac cgtgttagcc 180
aggatagtct cgatctcctg acctagtgat ctgcccacct cgggctccca aagtgtctggg 240
actacaggcg tgagataccg tgctcagcca tcaaaccat cttataaatc aacagggtga 300
cacagcgtaa gagggatggg gaagacttcc tcacacatgg accatacat ttattcattc 360
aacaaaaacc tactgggcac attttatgtc aaagcacagt gcacaagctg tgaacaaggg 420
anaaataatc cttgctctat gggtaacaca gaccattntg aaangncntg acttggggna 480
aggtntggat cttg 494

<210> 6777

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6777

gaaaccaggc tggagtgcag tggcatgac tcagctcact gcaacctcca cttcctggac 60
tcaagcaatc ctcccacctc agcctcccaa gtaacaggaa ccacaggcac gtgccaccat 120
gcttggctaa tttttgtgtg attttttttt tttttttgta gagacaaggt ttcaccatgc 180

tgcccaggat ggtctggaac tcctggcctc aggtgatctg cctacctcag tctcccaaag 240
 tgtcgggatt atagggatga gccacagttc ctggcccaaa ttcttttttc cccccatag 300
 aaagcagaaa aataatttat tccgaaagac ggcagaaata ataaattcat cctgaaaata 360
 cagtaaggng taattctgtt gagacagctc ttccctctga aaatgctctc ctactgactg 420
 ncccactgga gtattacttg gcttgcagca atttctaaac acttcattgg gtcccatgtg 480
 aaaangcagg agccatnttt aaaagcccag atttcaaggn ggcngtacat atttttcaaa 540
 aaagacaant ttttt 555

<210> 6778

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6778

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 ttacatctta atgagccac agctgcctgt tgacctgggtg tcatcacgag ggtgatcact 180
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<210> 6779

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6779

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ggagacggag tcttgctctg tcaccaggct ggagtgcagt ggtgctcact gcaacctccg 60
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gcaccatcac acccagctaa tttttgtatt tttagtagag ttgggatttc actatgttgg 180
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atacacttgg cataactgtg gagatgaagt tttgtacat aaactgaaat gaantgggct 420
tcattataat gattggtaaa agggatgatg tttggcttct gataaactaa cttgagaaaa 480
acttgnnacc tcactggnaa actctgactt ggngaactnt ttcctaangg gncctnaaag 540
ggggggccc 549

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<210> 6780

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6780

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gagatcgcct caccctgtaa cccaggctga cagaagcagt ggcacaaaca cggctcactg 60
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tacagaagca tgccaccatg ttaggctaata tttattttt ttagagaaa gagttttgcc 180
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gaagctttta gtccatttt tatgtgttag ggaaactgag tcttgagag actaagatac 360
atttcagtgg tcacaaaagc tcataagcaa actttagtag tgaggatctg aaattaaggg 420
tatctagctc tgacttacca ctincacct tggnacctga ctinttaaaa ccttaaaggg 480
actttaagcc taatagtagc ccttaaattt tgggaaaaat ancagtttgg actggctggc 540
acgg 544

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<210> 6781

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6781

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aaattgttgg tagagacagg gtctctttat gttgccagg ctggtcttga attcctggcc 60
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cccagctgct tgtaacattc ttgaaatgtt gactccattg gagtgaccag cagagcttgc 180
catgcctccc gatctgtact ctttgctgta gtttanatat ttgtccgctt caaatctcat 240
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gatggatccc tcataaatag attaatgccc tgccatgggtg agagtagtga gtgagttctc 360
tattagtttt cccaagagct ggttttttaa aagagcccgg ngcttcctc tctctcttgc 420
ttcctctcta cctgngatc tctgnacaca ctggcttccc ttncctttg ccatgagtgg 480
aacaaccttc agccttanct gagnanaaac cggggctgat tttggacaag ccataa 536

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<210> 6782

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6782

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caataaataa ttccacttta atggcaaagt aataatttag acagatacag ggtgcacatt 60
tgcaaaaaaa tatatgcaag ctggtttaca agctagagga acaataaacc aatagaaaat 120
acatcatcca gttaagtcca ttgacaccaa gtacttattg ttggggcttt acaaagacta 180
caaaactttt cagatgattt atttactgt ttctgcctat ttacatgata tgttacatca 240
aaatgtacaa aatataaaat gtatacagac aaatgtttca caaactagtt taagttgtaa 300
actaggtgga cctactgggg tgtattgcag gaaattctgt ttatgctcat gtttgactg 360
tgtttctcaa aatggcaggg aaagattagc aattttctta gatcacatat tatacaaggg 420

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aaactagtca ctcatccagc tacatatatt ggatgggtca caacagattt gaccatgggt 480
 gangntttta aggccangggg acaattctat ggggcctnaa atcagtcgga ttccttang 540
 gcaatagcnc cgggtang 558

<210> 6783

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6783

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 tcccacctca nacccccagg taactgggac caaagacaca cattatcaca cctagctaaa 180
 ttttttcata gagatggggg ttcgccatgt tgcctaggct ggtctcaaac tctcctgagc 240
 tcaagtgacc tgcctgcctc agcctcctta agtgcctagga ctatagggtg gagccaccat 300
 aaccagcctc tatcatcttt taccctaaac tcccatgtaa taaatattgg atcttcttcc 360
 tttattaagc atgcatgtgt ctaacctctc tggttttcca tcttccttct ctgggtccata 420
 ttctgagtaa ttatttcgga tctatatttc aaatcacctta atttctccta agctggttct 480
 aaacagctac ttaacanttg cattaaaata atcctttaac ctccttttaa gcaactttat 540
 tgggacaaac ntataaa 557

<210> 6784

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6784

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atcagactgg tacatgtgta actgatgacc ctacacggac atgtcattat tgcttanagt 180
 tcatagtcca tacgagggtt cacacttcgg agtgcacatt ctgtgggtct ggacaagtgc 240
 acagtgacat gcatccgcca gtgtaatatc acacagagta gtttcaccgc cctgaaatcc 300
 tccctgttcc accttttcat ccctctgtcc tcccagcccc tggcaaccac tgaccttttt 360
 actgntccca tagttttaac ttttctagaa tgnccatag ttggaatcaa acaataggna 420
 gtcttttcag agtggcctct ttcacttaag taatatgcat ggaaagggtc tncatggctc 480
 tttngacct gatggctcaa ttaattctag nccnnaaaaa aaatncatta agttttggct 540
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<210> 6785

<211> 514

<212> DNA

<213> Homo sapiens

<400> 6785

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 tacaggcgcc cgccactgng ccagctaata tttctgnatt tttagtagan acgggggtttc 180
 accngngnct ccattctctg acctcgtgat ctgcccacct nggcctccca aagngctggg 240
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 tgttaatacc atgcaatgnt atatcactga ttatgnttca ctaatgntgg ctgaaattgg 360
 ncaaaaagtt ttttggaat ccttacnaag atcaaatac taantcttct atggatcttt 420
 ctttttctct aaantttgaa taaatatcta aangcnaaga tgctgggcca ntgagggtta 480
 caagtctctt aatggaagg gcttaaancn tnaa 514

<210> 6786

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6786

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agtttcaaga tgtttatfff gaaaaacgtg cttgtttata tgtaagcadc ttcgtatcta 60
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taccaattct cttttggacc tcatgcccaa tacttttttt ttttttaatt tccaactttt 180
atttaaagtt ctgggggtaca tgtgcaggaa gtgcaggttt gctacatagg caaatgtgtg 240
ccatgggtggt ttgctccacc catcacctag gtattaagcc cagcatttat taggtattct 300
tcctgatgct ctccctcccc tcttcccttc aacaggcccc agtgtgtgtt gttcccccat 360
gtgccccatgt gttttctttg ntttaagttcc tactataag tgagaacatg cgggtgtttgg 420
ttttctgggtg ctnggttaag ttgctgagg ataacgagct anccatattt caagggtca 480
atactatggt ttgcttaang ctaacttaat gggnnagngc ttaaatngac atttcatcaa 540
ngcaaaagt 549

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<210> 6787

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6787

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taactgatga ccctacacgg acatgtcatt attgcttaga gttcatagtc catacgaggg 180
ttcacacttg ggggtgcaca ttctgtgggt ctggacaagt gcacagtgc acatcatccgc 240
cagtgttaata tcacacagag tagtttcacc gccctgaaat cctccctggt ccaccttttc 300
atccctctgt cctcccagcc cctggcaacc actgaccttt ttactgnctc catagtttta 360
acttttctag aatgtcatat agttggaatc aaacaatagg tagtcttttc agagtggcct 420
ctttcactta gtaatatgca tggaaggntt ctccatgnct ctttgtgacg tgatggctca 480
tttatttcta gccctaaata atattccatt aagttttggc tatnccctat tgaaggactt 540
tttgggtgct tncaan 556

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<210> 6788

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6788

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agtagagaca gcgtttcact atgttgcca ggctggctc caactcctga cattggctta   60
tggtcttttt aaaaagtttg atggtgagta gattttaatt aaatgggtgct ttttattgaa  120
attttcttta aaaataaaac tctgtatttg taatgtaagt caggagtaaa tacagatttt  180
ggataaatgt ctacacttcc taagtcaact ctcagagtca cttttaagat cactctagct  240
gtctggggta tccaacttgg gaaattcaga gcctcagtat ttagaaagaa aatccttcct  300
caactttaat ctgatgaaaa gttaaatttt ccttgaaagt cgatgatatg ccacaaagtt  360
aaatgcgcca tctggcaaaa ggcaaattag aacaggttca aaatttacia ctgnetacia  420
cattcaacta ttggtcaaaa atagaacctt attggcaatt ttgactttca caccacacga  480
atgtaccga gaagttggna ttccccangg caattttttt ttttagcgcc aatgacaacn  540
ccattaccct aantttaag                                     559
    
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<210> 6789

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6789

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gagacagaat ctcactctgt cgccaggctg gaggcagtg gcatggaatc tcagctcact   60
acaacctctg cctctcgat tcaagcaatc ctctgcctc agcctcccaa gtagctggga  120
ctacaggcac gtaccagcac atccagctaa ttttttgtat ttttagtaga gacagggttt  180
caccatgttt gccagatggt ctgatctct tgacctctg atctgccac ctcggcctcc  240
cgtagtgctg ggattacagg cgtgagccac tgcaaccagc cagaatttaa tattctttag  300
    
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ctactttgac tctaagtctg aaaagaatca ttttagaacc tgcaaaggca caggaaataa 360
 ctaaaatccc caaggaaata tctaaaattg gcctttaagc agaagagtaa cataaacaat 420
 gctggcttct cctgatctct atctaagtca anggttncc aacctttttt tctggctcta 480
 cctatttaca agtgcangct acttccatcn tggatatctt aancntttta ttctccgnaa 540
 gccagggggc cta 553

<210> 6790

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6790

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 ttacaggcat gcgccaccac gcccgntaa tttttggatt tttagtanan acagggtttc 180
 tccatgttat tcaggctggg ctcgaactcc tgacctcacg ngatccgccc gcctnggcct 240
 cccaaagngc tgcgattaca ggcgtgaacc accgggcccc gcctaaatgg gcttttaaat 300
 aacgttttta tttcagtcaa naaatagngt ttggtatgtt tggcaggctc tttttctcc 360
 tttagnctt tccttacaca ggngnttatt tttgctttgg ctttctcttg gaagttacaa 420
 tgctattttg naccttngcc accaaaacgt tttttccgg ctcatctttt atgaaggggn 480
 aanttttacn ggctgactcc attaaaggca ttttggcctc taattttnaa cten 534

<210> 6791

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6791

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gtgaaatact aagtactatc cttggcttgg ggattaaacc tatataacaa aagtgaaaag 120
 gggtcatggt ctaagagaca cagaactatt ttagaagagt tcaagttcac atggtagtta 180
 cctctaggtt catcacactg caatggcaga acaggcttgc agatacagac atgaacaatg 240
 caccgagaat ctggtattat caaggactgg gttgtaaagg catcattagt atatgtacag 300
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 aaataatttc tcaaagttta ttcagctttt aattaggaac ttataccaat ttttctaacc 420
 ctggggagaa aaccatnnga aaaaaaccca acctatattn caactggttt ttnaaagtcc 480
 accaantcaa gggtcacnttt tnggggcatt ttatttggaa tccgacttaa a 531

<210> 6792

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6792

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 gaggtaagcc atcctctcaa aatagacact gccttcagag gcagccatgg ggtacacca 120
 acctatccaa aacaactgtc aacggaggtg tttccgaggt atcaagacag taacaacaac 180
 aacaaattaa aaaaaaacag aagagaactc aaataactct ttcgacatgt agtgaggcag 240
 agtctacgaa gtaccctgaa gcagttgggt gccgtgaatc ctggtggtgc ttcagccaat 300
 gatggcagca gggctggcca ccgtggaagg caagtgactg agggcttcct aactcaagtc 360
 tctgtccac aagactttct agttgacctt cagagcagcg ggtcacggc tagagagaat 420
 cctccagacc atctcangct cgcactactg cagtctttca aatgccctta gagcacggct 480
 tnagaacaat ctctttgctt tcgttccta atgagaacaa ttcggcggtc ttttactttt 540
 tgagctcaaa tanttaccat cttattaat 569

<210> 6793

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6793

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aaggaaccaa caagaaaaca taagttgcat ttattcacgt ccacgccatc taaagctact   60
gtgtacagta atcaggactg gagaaggac gatttagtat ctaaaaacaa caaaaaaac   120
actgggacat gccccctgaa ttgcaagttg gagttcgtaa gaatctactt gctggcaagc   180
cggtttcctc cctgagaagc acacttcccg ctctcttctc tccttcacgc atcttctgtc   240
cctctcagtt aaggcctgga cagtgtggga tgggtgttga atctctctg cagagctgtc   300
agtcgcccgt gggctcgggc tgcgtgcact caggctcccg gtcgctgggc tctgcgctcc   360
gccgccgcag ctctccacc gtctgcagca gggccgaccg ctccagttct aaggtaagca   420
tggcctgctt cagcttgctc tactgntcan gagcttctca atgggnggcc tcaaggcttg   480
gatcctacca tttggcacct ggcaactggt caaggaggca aggtttggtt gcgnaactgc   540
tgtgggtttc tctna                                     555

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<210> 6794

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6794

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agacagagtc ttgctctggt gccaggtg gaatgtggtg gtgcaatctc tgctcactgc   60
aacctacacc tcccgggttc aagtgattct cctgcctcag cctcttaagc agctgggatt   120
acaggtgtgc aacaccatgc ctgcctaatt attgtatttt tagtgtagac ggggtttcaa   180
catgttgggc aggctggtct caaactcctg gcctcaagtg atcctccac ctcagtttcc   240
caaagtgctg gaattacagg cttgagccac tgtgcccggc ctcatattatt ccttcttatt   300
agttgctatt ttggttcagt ttgcaccact atagtcctct actagtacaa acattaagga   360
tgatcatggg aaaacagatt tggctggta gcaaaaatat gataaaggca tatcaagtat   420
tagttgtgaa acttaaatta ttcttggctg ctacaaaaaa gaattacata cattcaggta   480
catattctga atctgacaaa aatatttaag atagctcgta atggaataag acattgaact   540

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tcttattatc aaggttctntg aggnc

565

<210> 6795

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6795

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 agtcacatgg ttttaacttct ggttgctgtc tccgtgaaat ccagattgtt ctggggaggg 180
 ccagatcatg tgccctgcat ttccttctcc cctgtaagtg agaaagtgtt tctatataaa 240
 acagagacac tttcttaagg tgataaatc caaacaacat gcagcagtga actgatgcag 300
 aaacaaagct gtaaagagaa gccacaaagc acatccccag ggagaaagag cccttgaact 360
 tgcaggatca ctgccaacct ttggcagctg ggggctcctg ctgagtaatg ncagtggggg 420
 acatatgaat cacaggtttt cctttaatct tataatggta aaaccatttt taanaccnta 480
 aggtncataa agcctttntt caagaatccc naatgatgaa ggttanaaaa cntt 534

<210> 6796

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6796

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 gaagatctat gctgttttgt ttgggaaatg aaaggttttg gctacattta ttgtttgaat 180
 ttggaggagac agagagatta ctagggacta gagtggtttg agcaggattt atggaacaag 240
 tgtgacttca cattgttaca aattataggt gaagaatgaa ggaacattcc aggatcaagt 300

ttcctaaaat ttggaaataa actgtggaaa ttctcctaag gtttgtatct ttcttgtctg 360
aatctaagaa tctttttcta ttatgatgag tgagatcagg aaatgaatta aaatatatta 420
atttcctcct tggttttgaa gttctttaaa gaagggattt agaatttaaa tagtatgggt 480
attagtatct ttgagtgaag gagaaaccgt aattaaatgg cttctcattt ttaaaatagg 540
gagaaaagct tcttcnctt aa 562

<210> 6797

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6797

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acctccgcct cctgcgctca agcaatcctc ccacctcagc ctcttgagta gccaggacta 120
caggcatgcc ccaccacacc cagctaattt ctgtattttt gtagagacag ggttttgtca 180
tgttgcccag gctgggtctg aactcctgag ctcaagcaat gtgcccgcct cggcctccca 240
aagtgtctacg atcacaggcg agaggcactg caccagccc atggtttcct aacactgcct 300
cactttgatc ttgtgtgaaa ttgtgactca gtgctgagct ttagaccag ataatgttg 360
agggggaata cagaggagaa ttgaccttc tgaacagctc aacctagttt ctaaaggcaa 420
gattttactc cagcgacatg tactggtgac catgatgtca ctctgtgagc tggcctacca 480
gtaacccaac caacgctnag gaaggaganc atttccacc aacagnacac actatggntt 540
ggggnggccca atgatgggcn ccca 564

<210> 6798

<211> 508

<212> DNA

<213> Homo sapiens

<400> 6798

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gcagcctcag gcaatcttcc tgcctcaacg tgccaagtag ctgtaactac aggtgcgcac 120
caccactcat ggctgtatct tttcataga gatgggggtct ccctgtgttg cccaggctgg 180
tctcccaact cctgggctca agcgatcctt ttgccttggc ttccccaagt gttgggatta 240
caggcgtgag ccacatgcc cggccagcat tttttttttt ttttttggtg gagagacaca 300
agattattct aaaatgtata tggaaagcaa ttccaaaaaa gaagagtaga ggaattgccc 360
ttcctgatgt tgagaaccgt acagctacag cacagcgta tacggctcct acgtcagaca 420
gacatggctg gggcancgct ggangggaaa tgtgganacc acanaacaga acagaggaac 480
tcnaagagac cncagacgct tcagnca 508

<210> 6799

<211> 227

<212> DNA

<213> Homo sapiens

<400> 6799

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cagcctccgc ctcccgggtt caagcgattc tctgcctca gccctcctgag tagctgggac 120
tacaggcgcg tgccactatg cctggccaat tttttgtatt ttttagtagag acgggggttc 180
accatgntan ccangatggn ctccatntcc tgacttngcn atccacc 227

<210> 6800

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6800

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atgtgccatg gtgctgttat tgttattgtt tatgaaccta tcactccta ctactgtctg 120

atatgtctct gtaggcccc tgaccctagc aaaatgacta cacatagtag gtttttccat 180
 gaatgcttaa gagatgactg agcctactgt ctccagccta acttccctat ttaagagctg 240
 aaaaaatcag atttttttaa agtttcattc catttaagag ttaaaccatt tttcttattt 300
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 tttacctaca aatcatagtt ctgggaaaat gagaaatgtc tgctgtaggc acttattcaa 420
 gtactgcaag tcatgtgccg gactaaggca aacatgactc ggaatctgac gcttgaccta 480
 aggacagntt tcaaggctta catgacctac acacgaacnt aangntggct ttncatttaa 540
 atgccngtag tccnaaacac 560

<210> 6801

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6801

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 cacttgtctt tcaatctgtc aagcttagct aaaaaattca cgtatctctt ttctatatca 120
 catattgaca tgatatagga tgcaagatat aaatatcaat ttaatagaca ttattaaata 180
 attttacact tagtagaatc ttggataaat ggttaaaatt atagattgac attaaagtgt 240
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 tgtggggcag a 551

<210> 6802

<211> 517

<212> DNA

<213> Homo sapiens

<400> 6802

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aaatttaaag gagtttaatt gagcaatgaa tgatttgcac atcgggcagc ccccagaatt 60
acagcagatt cagagagact ccagtgcagc cacgtggtgg aagatttata gacaaaaaaaa 120
gggaagtgag gtagagaaac acctggatta gttacagggt ggcatattgcc ctatttacac 180
acagtgtgaa cattcagcag tgtatgagtg attgaagtac ggctgctggg actggccgag 240
actcagcaat tgtgacaggt acatactcct aatttaggtt ttcaatcttg tctacctatt 300
aagttaggct cagtttgttc acagggactc caatacagaa gtacggagtc cttctcaggc 360
catatttagt tcgctttaac aattccccct ttttggtcat tttatcagtt ttgagagatt 420
gatccgaaac ttggagttat tgatgccctg tcaccatggg cttgnaaccc cctnngaaca 480
naacagtgga gttttgcaaa ggtnggacca nggnctg 517

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<210> 6803

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6803

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caacaaacaa agttttctcg cttctgccac aatagtaaaa ccatctgac ttgacaagat 60
aatggtgtcg ttgactttgc tttttcttg tccgttggac aaaattggcc aagaatataa 120
ttggactggt atggccaata aaaacgaagt ttaggtcaag tcttgtcagg atagcctgac 180
taaaaacatc tggctcctta atttaaaata gttcagacaa ccagattctt gctgtgtttt 240
atgttaggtt aacacgctga actttaagaa gctgtagact gcagtttggt gttatgagac 300
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tctgccacaa attccgtcag cttttcataa tatcgncttt ggactctttc ttccatggtg 480
gcaaggtcca tanggtcctt aataccnccn taataatctg gngcatcatt aggggctact 540
gggtcaagga aaggcc 556

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<210> 6804

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6804

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ctgacctaca gacacttttt agaaaaaagt attactagaa aggaacctga acgtacaata  180
gtgtcttctt ggggaccatg gattcccttg agactccagt gaatgctttg gacactctac  240
ccagataaac tcacaatcaa atacttgctt ataatttcaa aggatcctat gaccctctgg  300
agtccatcca accatgatta catcctatga actgagctgc ccctccagag tcaccactgc  360
aactgccccat cccccagcag tcgccaggca cagggtccg gaaatgggca ggcagatcca  420
cttcagcggg gcatatttnc aagacaggat gaccctcatt tccatcacag gttgnanggc  480
cttgtggcaa ggaggaatgg ctgggcttgg ttaaagggaa agtcncagga aagaaagang  540
ggtccttgca gttnaaa                                     557

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<210> 6805

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6805

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gagacggagt ctcgctctgt ctcaaaaaaa caaacccctc tttaattccc aaattgattt   60
accatggaac tctttttaat gnaattataa tacaattaac atccacaaaa ttagagatct  120
aaggaaaaca ctaccctaata caaaaggcca caaatgtat tcacagtaac agcttccact  180
tactgggttt tcttgccagg catggggtaa aatagtttat acgcatcatc ttatttaatc  240
ctcagaataa ctcaataagg atgggtattac taactcccat tttaaaggagg aggaaactga  300

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cacttaggaa ggntaaatac ttgccccaaa gtttcctagc aacccaaatc ctgtcttaac 360
cacgatgctt caacagtcaa ctttccaatt ttignacngn ttttatgact ttggcctct 420
atcacttatt tcttgatgan ggtaatggnt cttctagggt tttccccagg ctttaacatt 480
tggccctggc agataaaccc ctggcttaag nggatanttg nacctggggg caaaaccaa 540
a 541

<210> 6806

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6806

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tgcctcctag aactcctggg atcaagcaat cttcacacct cagcctcctg actagctggg 120
actacaatac acgtatggcc accacatgtg gctttttttt tttttttttt tttttttana 180
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tggtagcatc acgtataatt tnaataaata attacnttat ttgctggaaa taaatcaatt 480
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gcagc 545

<210> 6807

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6807

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gctgtgttca ccaaacttgc ctgacccttc ctctctctgt gctttcactc actctcctcc 180
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atttggcacc tagtcacaag ttgctttgtg atatttcatg tattactcta tttattatgt 420
ataagtctaa ttttccatt tggagatatt taccctttat gtttcaagaa tgatttgaca 480
caacttactt aaagtataaa aaccaacaaa atcagacctt ccaaggtaac agtaaacttt 540
ctaagggtaa n 551

<210> 6808

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6808

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atgctctttt tatttgaaaa atttaggcat agactttttg ctcatctcaa atctggtcca 180
tctacaacga agttaaacta attcctcaa gggactgaca cacttcatat tgataacctt 240
aatttttaag aatatttatg aatataact tcttgtgtgt gtctgtatat atctgtatat 300
aatattttta aagggaattc ctgtaaagga gataattcag gaagttagct aattgccatt 360
atagtccaac aacctttaag catttacctt tgcctctctg tgtcttagac atttataaag 420
tgtatacttg tcttatgaac tatttaaagt tgtcaggatg aaataaaatt accgtgcaaa 480
aatttcaaaa agtaaaggcc ctaaataaaa aggaagncta tcanttaa at gcttcatatc 540
tgnttca 547

<210> 6809

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6809

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gtgaagtaaa aattcccttt catctgtggt caagtatgga aaaattatga aggtcctcat 180
taaatccaca ttttttaacc cattaaatta tccttataaa aattcagata aactactgtc 240
ataaatgcaa ctgcactgcc tcaaggacct aaaaactggt ttcctaatca actagatggc 300
ataatcaggt aacagcagaa acagatagtc tagtgaattt ccgagagtca aaatatgcta 360
ctttgatgct tattaacac tgaaaacttt cacaatacta actccagtta agttggtgag 420
gttaaaaatg actaaactaa aaataatggt caattaaaac atccacagg gatctactgn 480
aaataatagc tgcaaccaag ttctggtacc tcaagacttg aagncnaag atttccccag 540
taggnggctt ataaagnaat nttttg 566
    
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<210> 6810

<211> 510

<212> DNA

<213> Homo sapiens

<400> 6810

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cttctccanc atctcaccca ctttctctcc ttctcaatct cctgctccca cctccagcac 180
cttcggggat tccctcttgc agcccctgct ttctaantcc accctgggct ggggaaagga 240
aagtaagaga ccacggggac aatttcaagc cccccagtct ccacaggggc tantccccct 300
ggctacctgc ctggctttct ctctcctggg ctaggggctg gggaggtctg cggngctcan 360
tcctggccct gcantatccc aacaccctgc tctggggctg tetccacagc caaaggctaa 420
    
```

tgccnaggt cacanaagtg cnanggacaa gggccaccgn tccccgctgg gctcatccan 480
cacaagancc agcttactca cttgccaaca 510

<210> 6811

<211> 466

<212> DNA

<213> Homo sapiens

<400> 6811

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gagcgagacc ctctctcaaa aaaccaaaca aatgcagtgt ggttgctgga tgggggtccca 180
gaacagaaaag ggcacgcatg ggaaagccac agtccttcagt tagtgtggtc tgcagagtgt 240
cccaatgtgg ctctgtgact gtgacacata acaccacagt gaagaacagt gaccacacca 300
agggaggcca gtgcagggtc cacggggact acactgtgtc tgctacttct ttttttcttt 360
ttgatacagg atcttggccg ggccgcggtg ggctcacgcc tgtaatccca gcactttggg 420
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<210> 6812

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6812

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atggttctgt atatatttta gaatgatgcc ctttgtgttt gatccacaaa aaggagagaca 180
tccagagctg aagagttttc cctgagaatt ttgtcaagag ctagaagaga aagggaaga 240
agtacatgaa caactgcata tggatgatatt cactcttaag tctgctatac agaaatttaa 300

ggggtgggg gcggtggta tagtgtggag ccaggaaccc aaggaagcct atccatagtt 360
ccacatcgct gatgtaattc ttagtatatg gacacttgaa caattcaata tattaataag 420
tctaaatttc tatctggaca aagggtctgg ggtaaggagc tgggggtatt ttggttcctt 480
atatgttgcc gggaagtcag ggaccccaaa tgganggacc ggttggaacc ntggcnagg 540
aacctaaatt gggaanatt tcttgg 566

<210> 6813

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6813

cagaaacaac acatttctcg agtttttatt aactattgaa tactacaata tgatttacat 60
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gaaagcaggt cagaaaggag ccattggaac tatgttgaca acagcaccac atctcctact 180
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gtgtaattgc taaatactct ttgagtaaag ggaggaatct cccattgct actgggaacc 300
tcagattcct tcgctctgtt ttcccttaac tggcacccat cttgttgct aatgtgaagt 360
gaattgaatt ccttggccag gagttcatat tcttttgctt tcactgaag caatgagtca 420
ctgtatttaa tcctttctg gatgccactc aaatgagagt gaattttcaa accagctttc 480
atgcttttct ccaaatacaca cttaacactc tctaaattag agctttncag tcacttgcag 540
ctttcccttt cgcattttt 559

<210> 6814

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6814

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gccttccatc tcagcttccc aaagtgttgg aattataggc atgagccacc aggccgtgctc 120
cctggtcctt ttaagcatat gggttttcaa atatgttaga gcacctaaga tataaaataa 180
taagatacaa aaaataatac atagctctta gctagatcat ctttaattgaa aacttactgt 240
gtgtgtgcta gacaccattt ttaaattctt ttctttttta acttgntttt ttttgagaca 300
aggtcttgct ctgtcttcca ggctggaggg cagtgggtgca atcagagatc actgcagcct 360
ctaactccta ggctgaaatg atcctcttgc ctcaaccttc ccagtagctg gggactacag 420
gcacacacga ccacacccaa cttaaattttt aatttttttg taccgaaggg gnccttgctat 480
gttgaccagc ttgggcttga gctcctaacc tcaagggatc ttctacctta agccttccaa 540
gggttggaac acaaattgggc 560

<210> 6815

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6815

catttaaaaa aaagaaacct taaagtatct tgggctggct tttccacaca cacagctgga 60
gctactgtcc caggggatct gtctccaacc tctgtcaca caccacctct catgaagcga 120
actccttctt gaagctcggg atcgaattat aatcctgtga gcaatcatta ggtgcataag 180
aacttgtgtt tctctgtctc aggtgcactc tcagccctgt gagagatgag taggatctgg 240
agtccagaag atcttggatc atttactgaa ctcttttagg tacacaattt ccttcaatcc 300
cttcaacaac tgtccccgtt tgatgagaaa cttaaagctca caagaggtaa gaggctgagc 360
tggggacctc aaggcctggg actgtcctgt tctaagccaa atgaactggg gtgaactgcc 420
tttctgtcga tgcctgtagt gtgcagcaaa tgggggctgc tcaaagcagg aaccccggta 480
aagtgggaac catgggtatc ccgggcttca anttcccacc caacctgggc ttttttggcc 540
aggtccttcc aacccccaaa tggt 565

<210> 6816

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6816

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aaataaagaa aaacctttcc atccaacttg aagaaaaatc agaaagtatt tttctccatg   60
gaccattatt ctatttgaac ctaacctgaa ttccctcata gtcaaaacct gccatgatga  120
tgtgaattca tttccgcata gtcggaataa tttttgctcc aaattcttaa aggagacaat  180
gaattagtag cttgtaaatt ttgcagatct gggccttcaa taacttagta gaaggcaata  240
aaatagaggg aaaaatggga ctgtggatta caactgttca aatttcatct taatttcttc  300
tatttttctc aaccataatt cttctatatt tacaatcatt attaaaatat ttccctaaag  360
aaatacaaat gggtaaaggt attgaaagtc acatttcttt atctgaacaa gtattaagat  420
tgtccatcat ttcaagacaa aggttttctt aacagtgaaa atcacaggaa gaaagtaatc  480
aggtantttc atagatccaa ttatatggna gctgnctggg tttcacattt caaaataagt  540
cgtataggat aaccaaggtt a                                     561

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<210> 6817

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6817

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aaaaagacgg ggtctcgcta tgttgcccag gctggtctca agctcctggg ctcaagcgat   60
ctgcctgtct cagcctccca aagtgctgag attataggca tgagccacca tgcccagcca  120
tgtaatcgct ctatcaaact actacttact gtggaaaggg acctctcaat ataactggga  180
agctcatctt ccctaaaatt cccttgttcc tactagccat tagattttat ttttctcctt  240
tactaacagc atttcctagg ttctgcccac ctttatagct ttatagaact ccaaaccact  300
tgacctctta gaagtacagc tctgttattg atattttgaa aatgatcaga taaaatcaga  360
agaagcaaaa gcataatata gtccaaggtg tttcctgngt agtttcctaa actcagaaca  420

```

acacaggaaa gtttccctct cttcactaaa atccangcct tcactctatc ttgcanggag 480
gaggacancc tcagttggat agtaaaaaaa gctttanctt cantttggnc ccttancatt 540
agctaa 546

<210> 6818

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6818

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tgtggatcct aaccttctag gaataaacta tcctaagtgt gaaagattag ggaaaaaata 120
taaccaaaca ctcattttct tctaaaatgc tttctctgaa atattttgaa gaacaaggaa 180
aataaaatct taggatccaa aactcactat gccaaaggaa aagtcaggaa ctgagtcatg 240
ctaatactac cttccttttg ttcccaaaga gacagctgta atttcacaag ttgcctatc 300
ttaggtaaaa tgtagatcta ccacgcacaa gacaaatgca caatcaactt tttctccatt 360
cctctttaca catgcaacat ctggatgcag tgagtgctaa tccaggcctc ataagggatg 420
tcttccctca ctgnctttcc tccctttctt tatectccat ctacttctgg ctgggctcac 480
ccctataaat atnggagtca gcaaaacctt tttggaaaaa gcncaggccc aaancctact 540
gngacttggg gtcttatect taacttgga aaaa 574

<210> 6819

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6819

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gttatgtatg gaagaatgta tgttaactct ttcaggacat aagcccaaaa gtcaacagaa 180
 atttgaattt tttttttcta ttttcatgct gaaatttaat tcatcatgaa tttgtttcca 240
 aggggtgaaat tttctttcct caactttttac atgactttgt aataagagca gttgtacggg 300
 ctcacaaaaa taaaagacgg atgatggagt agagatgttc agtgtaaata tttagtagag 360
 gggctggcgg cttttaaatt tgcattctga gctgantgna tctgctgatt tcccatctgc 420
 taatattttc ccatctgcta aaacctgntt ccangggaaa aaggcctctc tggttttctg 480
 gcctggttta accctcatgg ncccccttan ccggaccttg gnaanaactn c 531

<210> 6820

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6820

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 aggcattgcac caccatgcct ggctaacttt gtatttctag tagagatggg gtttctccat 180
 gttggtcagg ccggtcttga actcccgacc ccaggcgatc cacctgcctt ggcctcccaa 240
 agtactggga ttagatagta gataggcgtg aaccaccgag cccagcctat ctaccctcta 300
 attcttaatt cataaaacat gaatctcttc aaaataaaag tattccatta aagttcaaca 360
 aaggctcttt acctaagcta aactgactga ccacagtcga caatcttagc taccacctat 420
 gggacattta atatgagctc tgcgttggtg attactttta tcgctaagct ggtattacaa 480
 aattctatga gacaagttta ctaaccctt tactngnaaa aaaccttggc taaccaagat 540
 aactggctcc aaaagcnaaa atgcgggaaa 570

<210> 6821

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6821

| | |
|---|-----|
| cagaggtcaa aagtttaata catacaagca aatccccaca cactgttcat caggagtc | 60 |
| tttgttctgg aaggtaaagt tttctctttg ngtcctttat agtaacttgt aaaagaattt | 120 |
| gttatagggt ctacatTTTT gtcaaagtgt gtcacaaaga tttacgata taaggaacaa | 180 |
| tggtactctt gtatgtttgt tgaaattctt caccttattc aagtacaaat ctattgaaaa | 240 |
| atagaaaaac taccaagtcc attatgccga ataataataa acaacagggt ttatctaatt | 300 |
| cttaatcctg agcaaaatac attgaggaag actttctgag aggactggga aataaaggag | 360 |
| agaaacagat aaaactcaaa cgaggtgatt aaaaagaccc caacaggtaa gttttactgg | 420 |
| ctagaatgct ttcctttgca ttggcacttt tcagaaaggg gggatttcct cagacctcgg | 480 |
| agagggtttc cagtanccta agcggtcatt taanggttgg caatgacctg nggaaatttt | 540 |
| ncatnttacc cgcagccttg gccgggtact ggaaggcaat gnc | 583 |

<210> 6822

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6822

| | |
|---|-----|
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| taggttgaga cgagagagcg tggaatgaga gaggaagggt tcaattaaaa aaatgaaccc | 120 |
| cactgcatcc ccctcttgac aggtgggggt agtggagctg acagccgtcg cattagctgg | 180 |
| ctttggtgga accctcatgc cttgtggttc ccccgagctc aaaaagagtg attccagggc | 240 |
| cagcggacac actcacacat ttttacttgg tgttccaatg cctccccgc agctatttct | 300 |
| aataatggta attataatga tttgaggctt aagcagggca attccggcct gaaggcagat | 360 |
| tgtaatgaag tagtcagggt gaagggaggg gagaggggct gcagtgggaa gaggctggat | 420 |
| ggggcacttt caggccttca atagctttgn ctagtcaagt gcaaccagga tggcctcatc | 480 |
| ttttgagccc aacgntttga cttgcaggat attcagaagc ccgtttctgc ttggaaatgg | 540 |
| aggattgctc acattcattg accagcccca tggcct | 576 |

<210> 6823

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6823

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ataggttggt attttttagtg gaagtagttc aatattcata ttggagcaga tgtagcagtt 120
taacaaaaca gctcttcaaa tcccgacaaa attgaaaaca ggaaaactga ttgcattttc 180
tcttatcact ttccttttct gaattgacac ttttggcctt ctgaaaattt acacatggct 240
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aaggactagt tttgttctaa acactgtaaa gggcatcagt tgcctacttg atggcaacaa 360
ttgtcatgta taagtcatag tcaaaataga tttatatatt cataaatttc tttaacataa 420
aaatatgtta agtccttctt ggnttttttt tttcatattc actctctgga tgggtcaaatt 480
ttctttgact caatggctgg ctaangctta aatttggtat ttaaaggact ntgccaaatg 540
tgtgaaaagg naaattcccc caggataacc aatcct 576
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<210> 6824

<211> 538

<212> DNA

<213> Homo sapiens

<400> 6824

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aacctccgcc tcccaggttc aagtgattct cttgcctcag cctcctgagt agctgggact 120
acaggtgcac gccaccatgc ccagctaatt tttgtatttt tagtagagac agggatttca 180
ccatgttggc caggatggtc ttgatctctt gaccttgtga tccacctgcc tcagcctccc 240
aaagtgtggt gattacaggc gtgagccacc acatccggcc agttagtatt ctttttacct 300
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tctaaatact tctttttaaa accacctatt tcttgactct agtttctctt ccccatcctc 360
accctcgcag tcttaattta ggcctcattg tccttgcctg aactgctgca acggccatct 420
gactggcttc atgcttcaga attcataccc tggaatncac ctttcccact gntgatagaa 480
ggatttgnet aaaacacaaa ctgatcagac agnttnaatn cnaaaggcat tccccatt 538

<210> 6825

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6825

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tgtaaagtaa ctacagaatg aagtattcaa cccacagaaa ggaactgcta acacatgtaa 180
cacggaaaat agctgataaa agtctctttg gtgccattca attatggcat ccgcagaaac 240
acaaaaatcc tcccaattat tttagtaaaa tcttcattta ttcattattt cagaggctga 300
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aagacttctt ctatgtttac ataagccatc agacacatac aaccactcac ttggtggctt 420
tgcgttttct tgaaanggtt gaaggagag aagagagaat ggaaccatta aatcaggttc 480
tcttttgcac aaagccttcc tttaaagggt taaaaaagct tatgttaaaa tatctnggat 540
gggccttaag tttcttttta attcaanaa 569

<210> 6826

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6826

caaatgaaag tatatttatt tttataaatg tttcctccag taagtttatg tttgactgta 60

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-----|
| cttaagaaac | aggaaaaaaa | aaaacctgta | attaaacttg | tgccaagatt | aaccaacagc | 120 |
| ctctactgct | tgtttcccat | tattacaggt | tgggtatccc | ttatctgaaa | tgcttggggac | 180 |
| cagaagtctt | ttanactttg | gtttttttgt | gtgtttttgga | atatctgtat | tatatattact | 240 |
| agtcaagtat | cccaaatccg | aaaatccaaa | acctgaaaag | ctctaattgag | cattttcctc | 300 |
| cagtgtcatg | tcagtgcctg | atatggtttt | gctctgtgtc | cccacacaaa | tctcatgtca | 360 |
| aattgtaatc | ttcgggtgtt | gaggaggggc | ctggaggggag | gtgactgaaa | catggggggca | 420 |
| gacttcccc | ttgctattct | gggtagtgag | tcttgganat | ctgggggttg | aaagtgtgca | 480 |
| gcatntgncc | cttggcctcc | tcctntggct | ntagcncgca | ggacatacct | gntt | 534 |

<210> 6827

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6827

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gttggttggtg | gtgtttattg | attcacctat | aaaccacata | tcaggctatc | tcttaagaat | 60 |
| acaacagact | ccaatcccat | tggaagtgag | ttcgcagcct | gctctctggg | ctctctccct | 120 |
| ctttccggcc | ttttctcttt | cacacggaag | agcttaccta | taaaaggctc | ttgataagct | 180 |
| ctcttgaccc | ccaagtttcc | tgggcagggt | tatttgata | gtgctattac | tccaactttc | 240 |
| ttcttctct | ttctgtcata | aatcaaagcc | acctgacact | ttgcgcccga | cttttaaaac | 300 |
| aaacaggtct | cctttctttc | ttcagccagg | tcacaagaac | tgcctatggg | ctaattctga | 360 |
| gagcatgttt | ttcttgggt | gaggcctggg | agaaagagca | gagtggatat | ctcaaaggca | 420 |
| actagagccc | gagattgtca | cttgaaaatg | cgccagcctg | gggtgtaaaa | gaatccctct | 480 |
| tttggctctc | ctcaattggg | aaaaccaag | nggtcctcaa | aggtnacact | ggatttacac | 540 |
| cgggtncggg | nccgggganc | ttccc | | | | 565 |

<210> 6828

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6828

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aacatgattt gttttacttc ataaattggc aatacaagtg ctaggatgac aaagatctat 60
tcttcatgat catgcaatga acagcagtta gtcaatgttc aatttttctc tacttcaaac 120
ttaatagtcc caatcgagaa tgtaattttc aaattagatt aaaaatggcc ctggtccttg 180
gagaaaaggc tgattctagg acaagggcat gaaatataca agatgaactt gaagcatctt 240
gtagtgccag aaaggaaatg cttaaaaaca aacaaaaaga cccacaatg acaacaacag 300
tatatatgtt aaacacagga ggccaggcgc ggtggctcac acctgtaatc ccagcacctt 360
ggaggccaag gcaggtggac cgccaagct caggagtica agaccagcct gagcaacata 420
gcgaaaccct gtctctatca aaagtacaaa aaattagcca ggcgtgatgg aacatgcctg 480
naagtccaag gtattcaaga agcttaagtg ggaaccttgc ttgcattcca ggaaggggga 540
ngttccnnga gcttagaaaa tgnnccttnc ttc 573
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<210> 6829

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6829

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ccacaggcat gagccaccat gcctggtgaa tttttaattt tctgtagaga cggtatctca 180
ctatgttccc catgctggtc ttgaactcct ggattcaagc aatcctcccg tcttagcctc 240
tcaaagtgct gagattacag gcatgagcca ccatactggg tccagaataa attatcttta 300
aagaaaagta gggtcataag ccagagagaa taaatacaca tgtcattgat aattagaggt 360
atgaaactgt gggaaaagaa ttaacaagag tcatctacca tagagaagga agcagctgct 420
tgttccagta atcccacaag tcctgactca agtaaaggat tttccagagc agatccttct 480
tcatctngga gatccccatn atntgagaac cgcagaatct ttttaaaaca ttngattgaa 540
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aaantttgga aaggttccca ttnccccagg aagaatt

577

<210> 6830

<211> 498

<212> DNA

<213> Homo sapiens

<400> 6830

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 tcgtgatccg cctgcctcgg cctcccaaag tgctgggagc tctttttttt ttttcagaca 120
 gagtctcact ctgtcaccag gctggagtgc agtggcatga tctcggtca ctgcaacctc 180
 cgcctcccgg gttcaagtga ttctcctgcc tcagcctctt gagtagctga gattacaggc 240
 acacaccacc acaccagct aatTTTTgta ttttagtag agacgggggt ccccatgtt 300
 ggccaggatg gtcttgatct ctgacctca tgatctgcct gcccagcct cccacaatgc 360
 tgggattaca ggcgtgagcc accacacctg gccaacatct atctcttaag tccacgatga 420
 tttctgggga tcttgnccat ccacaggttt tactggaaac cgnaaactat ntaccggcnc 480
 ttgnaaatgc nggcagnt 498

<210> 6831

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6831

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 taatagaagg ttagcttttt ttgttgnttt tttttatttt tttgcacatc ctttttact 180
 ttacagtaca tttgactata gtgcacaaca tgattccgag tcaaaacagt ggcccatgg 240
 gcactgagct tctgattggg gtagggcagt ccaatcagtg ctggtgtcac tgggttacct 300

caaccatgtc cggccaaaat ggcactaccc agtggtagtg aaccatctaa ttaaaaccaa 360
aactccccca gggaaaatgc tacactatca gagtcagtct tgagtcagat ctttatttgg 420
ngtccatcc agatatattt tagngctttc tctttacgan gngagtatgg tacacgatgg 480
cccagctttt tggagtcnac tgggtttctt tttttaatta gtcaatttnt ttngnt 536

<210> 6832

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6832

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gcaagctccg cctcccagggt tcatgccatt ctctgcctc agcctcccgg gtagctggga 120
ctacaggcgc ccaccaccac gcctggctaa ttttttgtat ttgttttagt agagatgggg 180
tttactgtg ttagccagga tggctctgat ctctgacct tgtgatccgc ctgcctcggc 240
ctcccaaagt gctgcgatta caggcgtgag ccactgtgtc cggcctaatt tttttatat 300
tgnggtaaaa tatacacatg aaaatttcca ttttagccat tttacgtgt acaattaagt 360
ggcattaata gacaatgtgc aacgggtccat ttccagatct gaactattct atcatcccaa 420
actgaaactc tgtatccatt aaacagtaac tgatcattgc ctcttccccg taacccttgg 480
taacttctat ttctggctct atgaattggc tactccagtt acctcatatt aggggaacat 540
ccatattggn cctttgggggt tggg 564

<210> 6833

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6833

gagacagggt gtcactctgt cacctacgct ggagtgtagt ggtgctatct cagttcactg 60

cagtcttgac ctcctgggct caagcgatct tcccacctca gcccceaagt agctggagct 120
 acaggcatgc actaacatac ccagctaatt tttgtatatt tggtagagat ggggtttcgc 180
 atgttgccca gactggtctc aaactcttgg gctcaagcga ctagcctgcc tcggcctccc 240
 aaagtgctgg gattataggt gtggccacta cacctggccc attgaaatat cttgaagtgc 300
 attagccatt caacacagct agcacaagat ccacactaat cacttacaaa tgttagtgtc 360
 accatgcaat ttttatcact aaatttattt gtaaataatt ctgccttatg ttatgtaaaa 420
 ctctctaaag gaatgtgaaa atgattataa atcatatcac aattaagaat gaggaacaaa 480
 caacacaaag aaaattattt taagaattac atacccttac cattacaat agtggaccat 540
 atggttatag taaatcacat taat 564

<210> 6834

<211> 338

<212> DNA

<213> Homo sapiens

<400> 6834

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 tgcagtggca cgatcttggc ggctcactgc aacctccacc tcctgggttc aagtgattct 120
 cctacctcag cctcccaagt agctaggatt acaggcatgt gccaccaagc ccgactaatt 180
 tttgtatttc taatagagat ggggtttcac catgnggccca ggctggtctt gaactcctga 240
 cctcaaggga tccactcacc tnagtttctc aaagtgctgg gattacaggc atgagccact 300
 gcgcctgacc aattntngna tttnnattag agacagng 338

<210> 6835

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6835

cttttctttt gagactgagt ctcattctgt tgcccaggct caagtacagt gacacagtct 60
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 gtgctgggat tacacgcata actgccttct tataccatt ttacttcaa ttctcatgag 180
 aatagcttct atgattatit gtccctttga tagaataaat tatgttgaca gatttcctgg 240
 taaaaaatca tcattacatg tctgaaataa actctagtgt tgatagtcta gaattctttt 300
 gatacaatgg cagattcaat ttgctaatat tttattttta cttttgaatt tatattagt 360
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 aaaggntctt attttgattc acaagggtgt tctttaagtt tntcaaaaa ggataaacta 480
 gnatctcctt tcattctgac atggtggang ggcccttggc tganaccang gtcctggant 540
 ggaagtnttt ggcaccgggg aacgnttc 569

<210> 6836

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6836

acaatttcac agcccacggt gagataattg agaccctgct gttcctggaa gcactattta 60
 gacagagcag gcctcaatag atctggaaca atcttggagg aagtcattct taaccctcc 120
 ctctcccttg acccactagg gagagaatga gggagagaga aagaggtgaa acttacatta 180
 aacaccctt cttaccattg ggaaacttcc cttcttatta ttctttggta attttttaa 240
 aatatcatca tcatatctga aataatatgg atcatcagaa ttgcttgat acatttttg 300
 acatgcctaa tattctggtt tttatggaaa atacatttgt ctagttaga gtttcctaaa 360
 gtatgctata cagaatatta gtaaaaatta aatgaaaaaa taggacaaa tccatcactc 420
 ataaatccac ttttagagat gatttaaagt gtaactaat gatttcaagg catggtttta 480
 agcctgggaa ccccttattc aagcttacc aaaatggtat gaancaggtg gaaacatgga 540
 actggtctga agnggtggca aggggggna 570

<210> 6837

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6837

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atgtataaac aggtaccagt tttgatttta tttaatcatt tcatacatta acatacatga    60
cacatcaaaa tgagaaatgc acagtttaac cgttcaacag ctggccttac ttcaaaagaa   120
cactatattc atattaaaca tttacagtct ttccatctaa ctttacacat gtcctaaatc   180
attttccagc acttctcaca tagaagtcta gttttgctct ttaaaatcac catctgtatc   240
acccttagta gaaacgaggg tttccccaat tacatgctga agagagccag ccaccacccc   300
acctaaagac atccaagcag ctccagagcc tgcctccgag gccaccctt cgccacggca   360
gtctcgattc caagaactga ttatctgaca ctagtgaacc agcactaaag gctgtaggat   420
gtgactacat cacagttcca gaaggaaggg gaccatggcc aagagaagcc ctaaattgaca   480
gaagctcatt aaaancaagt ccccaaacct tctggaacat cgtagcaagg agcttctggt   540
ttccttctta acatngtttg gctgaccccc n                                     571

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<210> 6838

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6838

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gttttactaa aatggtcttg ttgcaaaata ataacaaata ccacagagag ccctacatga    60
gaaagccatg tgccttcaag cctggggatg aggactctag ttctcaaatt cttagaacat   120
agcacatgat tctccagggc agagaggctg gctggagaat gaggacctca ctgctgactc   180
tgcttaacaa agtccatgcc ccaggcacag gcacacatgg aatgaggcca ccaagcaagt   240
cacaccacc cctgttccca tgaaccccat aagagagaag tgctctctga agtctacaga   300
cttggcaggg accactggac catggatagc ttagagacag ttatctgtg gccaatgaca   360
taaaacctcc agaatctggg ccctacagtt cccttatcca aatttccact aactagggag   420

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gtagaagagc aagacatgga agttgtctcc aaaccagtat ttggtcttca gtaaacaggg 480
 ataaacataa aacactggtt cacaagcaga cticanactt ctgggcacag caggtggaaa 540
 aatccttaag tcccactgac caccttccac aggag 575

<210> 6839

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6839

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 tggtaactc caccacactt cactctcaaa ggaaaggcac agggggaagg aagtgagtga 180
 gggggctcag aagagtctgt gtggctccta ccaccccaaa catattctgg ttccccaag 240
 ataagaggca aggcctgtc tgatctttcc cagttctcag agtccagcag gccgctgtgc 300
 tggacacata catggatcca ccaacatata tcagtccttc tgtgttctct cctgcatggt 360
 agaggctgga agcctaagag ctatattcct cagaatttcc tgccagccag gatttgcttt 420
 aaagtccact aatgagaggc acttctagaa accatgattc cttcttcagc agtggcagac 480
 agtaggcatg aaggttttgn aacatcttct gagcanttcc cagtccataa tctgnttttg 540
 ggcttgttgg aacttganac cctnngccgg gagttttttt 580

<210> 6840

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6840

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 caacctctgc ctatggggtt caagcaattc tcatgtctca gcctcccag taactgggac 120

tacaggtgtg cactaccacg cccatctaatt ttttgtatatt ttagtggaga tgggtttcac 180
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 ctgggattac agatgtgagc cactgcgctc agcccttttt tgtcttggaa gtagcagtca 300
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 aattactgct atagaaagcg ggagaataag ttgaaagtag aaatttcaca ggattaccag 420
 gcaacattga gacctgaggg ttggtgatca agaatttaga gaggnattat cccctcttnc 480
 ataatggng aactttcttn aagccatatt tacacagaca gttgggctta caaaggcttg 540
 gggtttttca ggcnaatggg ncccaaaacc aggggn 575

<210> 6841

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6841

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 aaaacctccg cctccctgat tcaagcgatt ctccctgcctc aaccaactga gtagctggca 120
 ttacaggcat gcactaccat acctggctaa ttttgtatatt ttagtaaaga cagggtttct 180
 ccatgttggc caggctggtc tcgaactccc gacctcaggt gatctgcctg cctcggcctc 240
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 aagcttcaag ttttatcttc taagatatgt tccaaagatg tatgttttta aataggatat 360
 attccaaaat atcttactta aatgcttcaa gtatatcgta agtaagtat aaatcacatt 420
 ttaaaataat caaatgtggc tgggcatggt gactcacact tataatctca gcactttggg 480
 angcttaggt gggaggatcg cttgagccca aagttcaaga ccaacctgng caacgtatgg 540
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<210> 6842

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6842

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gggggtgggg ggcagagtct ccctctgtcg cccaggctgg agtgcagtgg cgcgatcttg 60
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gctaggacta caggcgtgtg ccaccacgcc cggcaaattt tttgtatttt tagtagagat 180
ggggtttcac cgtgttagcc aggatggtct cgatctcctg acctcatgat ccgcctgccc 240
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ttaaagtca accatgacag ggcagatgag acaaaactaaa attacttttc atttcaatta 360
tcaaaaacaa ttagatctat ttcaagaaaa tatttttgct aagtaaattt tcttttaata 420
gctttaatct tataatacac atacatattt aagaatttag tggatcaca aaataattat 480
tttattattt ccacctaaag gataatgagt ttggctaata tagtctnggg gttnaaattc 540
agcttaaccg cattntnaat tnggcn 566

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<210> 6843

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6843

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cctcaggtga tccacctgcc ttggcctccc aaagtgtgg gattacaggc atgagccacc 120
atgcccagcc taaagctgat ctttttaaag aggaaaaaca aaccaaccag gggcctgagg 180
atgtctggtt tgggttctgg ggaagtggac cctgaaaggg ttgacaggcg acggctcctt 240
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agcacacgcc acagacagca tggcccatgg cggcctcgga ggaacttgaa agggtcctgg 420
gtacagtgca agtnggaaaa gaaggggcag gaatcccagc ctggccancc canatgggaa 480
aaccannntt cggggcctan gcc 503

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<210> 6844

<211> 498

<212> DNA

<213> Homo sapiens

<400> 6844

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gagacggagt ctcgctctgt caccagctct ggagtgcagt ggcgtgatct cgactcactg   60
caagctccgc ctcccgggtt catgacattc tcttgcctca gccacccgag cagctgggac  120
tataggcgcc cgccacaacg cctggctaata tttttgtatt tttagtggag acgggggttc  180
accatgttag ccaggatggt ctcaatctcc tgaccttggt atccaccacc tcggcctccc  240
aaactgctag gattataggt gtgagccacc gcgcccgcacc caaaatcttc tttattattg  300
nttttttatt tttatTTTTT gagacggagt ctcactctgt tgcccaggct ggagtgcagt  360
ggcgcgatct cggctcactg caagctttgc ctctgggtt cagccattc tcctgcctca  420
ggaggtcaag atcancccg nttgacatatt gaaaccctgg ntctatattt ttaccaatna  480
aaacttcnaa tnanngtt

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<210> 6845

<211> 568

<212> DNA

<213> Homo sapiens

<400> 6845

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gagacggagt tttgctcttg ttgcccaggc tggagtgcaa tgggtgcgatc tcggctcacc   60
acaaactccg cctcccgggt tcaaacgatt ctcccgcctc agcctcccaa gtagctggga  120
ttacaggcat gcgccaccat gcctggctaa ttttggtatt ttcagtagag acagggtttc  180
tccatgttag tcaggctggt ctcgaaactc cgacctcaga tgatccgccc acctcggcct  240
cccaaagtgc tgggattaca ggcgtgagcc accacgcccc gcctaaagaa atcttttaaaa  300
atattttctg gtgctctaca tgttcagaga aatttcteta gtaatgaact atagaaatga  360

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ttcctgaaag tacagtctta acagcaccat ttaaatacagg ggtcctatgt atggtcataa 420
 ctagccaggc ttttaagaggt ttgcagctna cacaggcgaa ataaaaacca ggagtttggt 480
 gtgcatgaat acaaaattgg ggnaagggtc tgaagaaaaa gtccatggcc tcatcatatt 540
 cccaagaagn tgnagcncc aaaaannt 568

<210> 6846

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6846

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 accacaggcg tgtgccacca tgcctggcta atataatttt ttttttttt tganatggag 180
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 ggccttccca gcttgccgtg agagggccct gcctgcctcc gcacttagga agcacaggcc 420
 cgtcaggtgt gaatgtcccc ggcctgtctt ctccctntca naacaggcca ccattatttt 480
 tctttganat ttggctacac tggctttttt aancctcttt tggctatgct taangctntn 540
 t 541

<210> 6847

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6847

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caacctctgc ctcctgggtt caagtgattc tcctgcccc a gcctcccgag tagctcggat 120
 tacaggtgtg tgccagcaca ccaggctaatt ttttgtatTT ttagtagaga cagcgtttca 180
 ccatgttagt caggctggtc ttgaagagaa ggatacattt tttaaattac ataattaaga 240
 gagaccttgt gctataagag aaacaagact gacaataatt ttaaaaaaca gcataacatt 300
 ataagttgta ctagtttTga aaaaagcaca actctctccc ttgntcctta atttagcttt 360
 gatgttatga cacatcatat aaactgcagt attccatgta agttaagcac aaccaatta 420
 ttacctgaa taaaattaag gccaaacaaa atggaaaaca tatttgccat ctaatatTtc 480
 catggtnggt ggTTaaggTt catgaagctg ncntattgaa gaaagaatca gaattgtaag 540
 gcaaaaatag gtctaagtta gaagaatgcc tttgggaa 578

<210> 6848

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6848

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 aagcaaactt caagtcagtg aattagttac cacagttaaa atgcatttga ttttgcctt 180
 ttcttttttc acaagaacga cagctgaata ctctttcatg tgatgcctga ttttttctt 240
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 ggttgagtg cagtggtgca atcttggtc attgcaacct cagcctcctg ttttcaagtg 360
 attcttctga ctcagcctcc caggtagctg ggattacagg catgtgccac cgtgcccggc 420
 taatttttgn attttttagta gagaaggggg gtttcacat gttggccagg atggtctcga 480
 actcctgacc tgaagtgatc caccgncTt ggcctccaaa ggctgggaat anccgngtga 540
 gccctgtgnc aggctctgag gtggaaattt tctgttac 578

<210> 6849

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6849

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aaggatatta ttaaccttag tagatgacta aaggaagaaa cacacataca aaagtctggt   60
cctaccaatg ggcttagctt ccccaggaac caggaaattt tactctccca cccctataac  120
cactgttgca aaatggcttt ctctccact gaccagggtt ctcatgccca ccttttgcta  180
ggtaaagagt agtaaaagag aaaatggcca atgaaaagga gggggaaaca ctttttaaaa  240
ataactatat tttcaggaca ggctctgtgt gagatacact ctaacgtggg gacacgccac  300
agtcctcagt ggcccttgcc catcctccca actcactgta cagaaacact ctatggaggc  360
caatatttga ttctagaagc cagtgtccct caaccaact tctgcaactc cataccaac  420
aaatgatgct caaaaacaaa agcagctatt ttaagatcac taaacactgg ctggtgatgg  480
caaaactggg gctttcctta ttcttttctt cattttgctt ttatcaggcc ctggccttct  540
actttcntaa aangaattta ctccaaattn tngggaagaa atctt                    585

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<210> 6850

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6850

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gtcgtttggt gcacctatca acccattatc taggttttaa gccccatata tgttagctat  120
ttgtcctaat gctttctctc cctcaccba ccaaccgccc tcaagtcagt tttctaagag  180
tattaatcaa gaaaccatct cataatcaca ccaaagcata tttctacaca agatataaaa  240
tactaggata ttgctaaag ataaatgcat gccatacact gtaacaatgg aaatgacttc  300
ctacaggata acaatgctaa aattaaactc ttgtaatta gtaaagatga acatgtgggt  360
aatatattgt atatattttt taaactattt ttgcctcag taaagagaga gcttagatac  420
cttgtgtcat aaaataataa agcaaaaata acatttctat gtgaacattt ttaaaggttt  480

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taaaattcat cctgggctgg gtgtaatggc ttgctcacc c tgtaatccag cactttcaga 540
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<210> 6851

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6851

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cattaggtat atctcctaata gctatccctc ccccgacccc aaccccacaa caggccccgg 180
tgtgtgatgt tccccttcct gtgtccatgt gttctcattg ttcaattccc acctatgagt 240
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gagagctttc acctccctgg ttagctgnat ttctaggtat tttatTTTT tttgnacata 480
ttngaatgg gaatngttc ctttaattggc tctcagcttg gatggctctt ttatacangg 540
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<210> 6852

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6852

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tctgccatca tgcctgtcta attttttgta tttttagtaa agatagggtt tctccatgtt 180

ggtcaggctg gtctcaaact cccgacctca ggtgatccgc ctgcctcgac ctcccaaagt 240
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 cacttttagt tgcttgcata attcattcct ttcctataag attatagact cttcctatatt 420
 ccccagatcc ttttaaaggt ctctaacttt tgaaagtttg gtacataact ggtcatactg 480
 nacacatacn nggcacaata accatcactg agtanaangg taatcnttca ctaatagccc 540
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<210> 6853

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6853

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 gaaaataaca taataacaac aataatgaac aaagcactta gcatgtgcca ggcactgttc 180
 taggtgcttt tacctattca gtcattactt ttcacaacag ctctgtgagg taagtactat 240
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 aatacaccaa ccttggaaca gtttctcatt ctcgntcaag ggtttggaan gtgagcagca 480
 agctgctttt ggangcacta aacttgggng gtgctgggat ataaagcctt cccagatgcn 540
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<210> 6854

<211> 486

<212> DNA

<213> Homo sapiens

<400> 6854

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gcaagttaaa ttacatttat tatataaaga gatcctataa cttgatacga aaaacaaagc 60
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accgatagca cacaaatatt caacctcatt aataatcaaa ggattaggat gcacttcttg 180
cttattcaat aaagttaata atttctaatt tttctacttt tcaaattgtac tcaaattgtgc 240
tatttttagt aataaaaaac tgagtaatta aaaaaacata gaaagtatga aaatttctgc 300
caatgcagaa atcataaaca gcattaaaat gaatcaacac ttgtatgggc agtaagggtc 360
agaccctag aagccaattc attttgcctt ggttcctgag ttttattatg ggattgtcaa 420
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tnnnnn 486

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<210> 6855

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6855

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actttttctt catcaactta gggcctgggt tgtaggcact gtggctcttt gggatagtta 180
aatgggtgca atttggctga gaccgcccct gtcttaaatg gcccaggcta cagggttgc 240
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agtgaataaa aattgaaaac aaaaccatct ggttaaaact attaaatgaa gttttaaaaa 540
taatggatgg gtaaataaat ggccatcaaa tna 573

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<210> 6856

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6856

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caacttttgc ctctggact ttggcaatcc tccacctca gcctcccaag tagctgggac  120
cacaggcata caccacatg cccagctaatt tttttttttt tttttgtaga ggtggggggtt  180
tcaccatatt ggccaggctg gtctcgaact cctgagctca agcgatccac ccacctaggc  240
ctcccaaagt gctgggatta caggcatgca ccaccaggcc cagccacatc tgattttagg  300
gggattcctc tgaacacgtc accagtcagt gtgagatctg catgaagtat ttggttgaga  360
gcccttatct ggtgaaggaa gatccctact attcttaatt tgctgagggg ttttataatc  420
aaaggagatt gaattttatt gacttccttt tctgcatcaa ttgagatgat catttgggtct  480
ttctccttta atctgcaatg tgggtgtattt tggtaataga tttttgatg tggaatcatc  540
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<210> 6857

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6857

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aatgaatcac tgcttttctt ttattgatag gtcagagagc atttcctggc acccccaggg   60
tacagcccc tgactcctgc tacccaagaa ggccatcctt tcctgcctgt gatactccgt  120
ggcatctgtt ctgccagagg actgaccctt tgtgctccac atatgttttg ccaggaaaca  180
cttatctcag ccacaaaccg tccctgtcct caaaagact cagagctgct tacaaggggc  240
tgctttggtc agtcagctgt tagtcctggg gctcttgctt cctctgtggg ggtagcatca  300
gtcaccctaa agttctcagg ccgccgctag ctagtgagtt acaagatttt agaaaccagc  360

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tcttgtccac agatcctcag gcccttggtt cttggatcca gaggcgtctg aggtatgttc 420
 acaggcacct gctgctgctg ctgctgctgc tgcctgctct gctcttgccc tcagtccccg 480
 tctttccacc tgggtccct tgcactttca tgcctgangc tgcactgggtg gccaaagtcta 540
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<210> 6858

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6858

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 caggcgagca ccacatggc cagctaattt ttctattttt agtagagacg gagtttcacc 180
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 agggctcttg tctgttgccc aggctacaat gcagtggcgt aatcatggct catgcatcct 360
 caccctccca ggctcagatg atcctcccat ctcagcctcc caagtagcta ggactacagg 420
 tgcacgttgc catgcctggc taaattttgn gttttttgta gagatggggt cttgccaagc 480
 tgcctagget ggtctggaac tcctgggctc aaatgatctg gccacctnag cttccaaagt 540
 gtnggaatac aggcttaacc atgggccggc anaattc 577

<210> 6859

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6859

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cagccacctc atcagactaa ttttttttct ttttttgaag agatggggtc tagctatgtt 120
 gttcagactg ttcttgaatt tctggcctca agcaatcctc ccacgttggc ctcccaaagt 180
 gttgggacta caggcatgag ccactgtacc tggcccaaag gctttcttga cctccagtt 240
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 ttaattttta attgngatct gattcatata tcatatctct ncaattacag gctcctggga 480
 agtggttaaca ggggctttna gcttcctggg attttccaat ggacttacac cccagtgtcn 540
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<210> 6860

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6860

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 ggattacagg catgcgccac catgccctgc taattttgta ttttagtag agatgggggtt 180
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 tgcccgaagc ctccctcctg aacangctgg actcacgcat tgaggtctgc gcctttcttc 480
 aacaggtagt anatgcaggg gaagggccac ngtggtggtt gncctgggg atgacaaggt 540
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<210> 6861

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6861

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ctactccttc ctgcaacccc atgacgcagt tcaggaggag gggctcgcag ttcaggagtt  180
aatgcgtgtt caggagcagg ggctccaagc actgcattcc tggggccccc ctctggttcc  240
acacctttgc tcttgccatt accttagatt ctatgccctt ccctcctttc tttacctgtc  300
taaatcctac ctgtcctcta gagctggttc aaggccagct tctaccaggg agcctacagt  360
gattgntcct tccttggaa tccctcagcc tttcctagtc atcaacattt cctgggggtgt  420
ggagtgcctt cctacagacc aggtatccca aaggttgggc ccaagtcttc cgntgcaaca  480
aggcatgcca atggggagga aaggagacag tgcttggaa ggaaggagat cctgaaactt  540
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<210> 6862

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6862

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TTTTTTTTTT TTTTTTgag acggagtctc gatctgtcac ccaggctgga gtgcagtggc  180
gcgatctcgg ctcactgtaa gctccgcctc ccgggttcac acattctcct gcctcagcct  240
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agtagagacg gggtttcacc atgttagcca ggatggctct gctctcctga gcttgtgatc  360
cgcctgcctc ggtctcccaa agtgctggga ttacaggcgt gagccactgc gcccagcctt  420
tattttattn tattttatTT ttgagacaaa gtctcactct ggtgccagg ctggagtaca  480

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gtggtgngat ctgggtaac cacaacctic accttcctgg ttcaagggat tctctggctt 540
aancttncca agtagctgga attaccgggg ccgggcaaca ac 582

<210> 6863

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6863

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ctgggattac aggcattgcac caccacgctc agctaatttt gtattttgag cagagaaggg 180
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tgcttaaaca gaaacatata tttcatgctt tggtttaca gttatatggt aagcaccctg 360
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cacgttaaca tctctttgga tctataaaaa ggtattcact caaattcaag acttttggan 480
gggttttggga ataaaaatgg tttgnaaggg cacaagtgga aggttaaaga nggaaggaaa 540
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<210> 6864

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6864

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acagccgtgc gccaccacgc ctggctaatt tttgtattt tagtagagat gtggtttcac 180

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tccttcctgt tttttcagaa gggaccactc caggagtcag aaaagaacac acactatgaa 360
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gncccttaaa aaaacttaaa ataagctttt gncccaaana gaaat 585

<210> 6865

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6865

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tgccttttgc atttttcaat gctgacatgt ttcagtaaaa ctttgactaa ctagaatact 180
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cctgaggtag ctaaacccta ctactctctt caaaaattaa tttggccttt taagcaanaa 480
accctggant cttatcangg ggacaaacca aaggtcctgg gggccanaan ccttaacntt 540
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<210> 6866

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6866

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tgntctttcc ttggctgagg aant 564

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<210> 6867

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6867

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tctctgggtt ggnaanggct ncntttanta atcagtacca accaatntg atctgggaaa 540
aaaggaaaaat gaaaaatfff aaggctaccg ctcn 574

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<210> 6868

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6868

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cctcattatt attatttaaa gaaagctagg acattttcac tttttttta agaactcttt  180
tctaatacat atatgctaga aactgagaag gaactcttca ttgattatta tttcttcttg  240
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ggtnccttag attagggagt gggggatgac tcttaaccga gtntgccggc ctttcaacat  540
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<210> 6869

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6869

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ctacaggcac gtgccaccac gccagctaa ttttgtatt ttttagtaga gacaggtttc  180
accatttttg ccaggatggt ttctatctct tgacctcgtg atctgccgcg ctcggcctcc  240
caaagtgctg ggattacagg cgtgagccac cagcctggc ctctacaata attcttaaatt  300
    
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ttatacttat gcatatggac atatctaate agaaagaata acttccagtt ccccttcata 360
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ctactttacc tggatgtcct annttgcttg ctctttcaag gtgtgtgtgt gtgtgtgn 480
gngtgtacaa tcatgccaa ttggatcttt tatctggaaa agcccatctt acacatattc 540
nccaagggna atttttaang gactgccaga aaaaaanttt gga 583

<210> 6870

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6870

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accaaggcag gaggatccct tgaaccagg ggttcaaggc cagtctgac aacatagtaa 180
gatcctgtct ttacaaaaaa caattttaaa gttagctgtg aacagtaatg cacacttata 240
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caaataattgg gtnttcaatc ctgggtaat aanggga 577

<210> 6871

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6871

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ccaagatagt ttaaacagcc ctggcctcaa cttcttctact ctgtctgttg gtctactagg 180
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gaaccaacct ttggggnaat acattctggt ccggn 575

<210> 6872

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6872

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actacaggcg cccgccacca tgcctggcta attttttgt atttttagga gagacagggt 180
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atgtttaaac aaggtttcat ttcatttcaa aaattccaaa tctattagca taaagatgta 360
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<210> 6873

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6873

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<211> 579

<212> DNA

<213> Homo sapiens

<400> 6874

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tggttcaca ttagtaggtt agtgtgcatt ttccagaact ttctanaaag ggaaccgngg 480
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<210> 6875

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6875

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<210> 6876

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6876

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gtaaccatgg ttctcaattg ggcaattttg cccctttctg ccacccgggg tataattggc 180
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<210> 6877

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6877

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<210> 6878

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6878

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<210> 6879

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6879

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aaaattcagt taaaaaagtc attaaactag cattctgtaa agataattat taaacaaatg 180
gtaatgcatt ttactcctt atttcatttc taacataccc aacgtcactt ctttcttgtg 240
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cacttagaaa ctctaaaaga aatacatcag agccttggn aacatttgta ggggacatgc 480
tgtgaaactg ctttaaaacg nggngtgnca tttggcncag gagtaatgaa ccggcgtgag 540

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575

<210> 6880

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6880

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<210> 6881

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6881

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<210> 6882

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6882

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 aaccaggaac tctaaatagg catgaaacct tatgaaaagt acttcttggt tataaatact 180
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 caccagtgtt acaaagggtga cttttttaaa aaaatagaga caagatcctg ctatgttact 300
 ctggttaatc ttgaactctc gggctcaaga tgatcatctc acctcggcct ccaaaagtgt 360
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 tagtaatggg taccctgaat gggagcattt actgctttac tgngatacta tcttgcagaa 480
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<210> 6883

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6883

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cacatttacc atctggnttc tggtaaaacc nttacagatt ccangngctc aangctatct 540
tgacnaaa 548
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<210> 6884

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6884

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actgtcaggc aagctaccat gtagttctcc ttgactccat gcttagctct ttcagacttc 180
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tantt 545
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<210> 6885

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6885

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<210> 6886

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6886

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ctgggtgaca gagccagacc ccgtaatagt tgggcaccaa gttaagatt tattaatttt 300
ctcctctcag tataggcagc aattcacat tttctttcag ttccttcaca atatccaatc 360
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ctcccaccag ctcccctttc acatacagct gagggatatgt tggccaattt gagtaagctt 420
ttaatccttg ccgaacttct tcatacctcca atatatacgaa ngttcatatt caacaccagt 480
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<210> 6887

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6887

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<210> 6888

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6888

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 gaagcctcaa aacatgggga aaagatatgc aacctcatan ggggatcaga aaatgcaaac 480
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<210> 6889

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6889

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<210> 6890

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6890

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<210> 6891

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6891

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caacaaaact

550

<210> 6892

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6892

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tggaagtgg gcacctt 557
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<210> 6893

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6893

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catgccaatt gacat 555

<210> 6894

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6894

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gcctactaac aactcttatt tctgcacctg ctgcatacag tcaacatagc aatcagatct 480
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<210> 6895

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6895

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 tttttttttt ttttttttga gacggagtcc cactctgttg cccaggctgg agtgcagtgg 180
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 gctcttctta agagaccctt ggtggggtgt ggtagctcac acctgnaatc tctgcatttt 480
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 ggtg 544

<210> 6896

<211> 499

<212> DNA

<213> Homo sapiens

<400> 6896

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 gggagtacag gcgtgcttta ccacgccag ctaatttttg tatttttagc agagatgggg 180
 tttcatcata ttggtcaggc tggctttgaa ctctgacct caggtaatcc acccgctttg 240
 gcctcccaag gtgctgggat tacaggcatg agccactgca cccggccaac tatttctttt 300
 tgttgttgtt gttcatggtt ggcaaaactc tggccaaggt gtggccaaac cacaattcaa 360
 caagtccgt ctgcttgccct acgttgagaa cttggcataa agggtagaaa aaggagagcc 420
 aggcatggtg gtgcgtgcct gtagcctann caggangnta angcanggat tgcttgancc 480
 caggagttca agggcacag 499

<210> 6897

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6897

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cacgcgtgtg ccaccaagcc cagctaattt ttgtattttt agtagagatg gggtttcacc 180
atattggtca ggcttgtctc gaactcctga ccttgtgatc cgcctgcctt gacctcccaa 240
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cgcctgtagc acaaaagcaa aggcctcttt ttatttgga atattggggc caaataaaca 360
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ttgttcacat ggccagccac cagccatgtt ggatgccctt ttatgcattt cacctctaac 480
gcacgtacac gctatactga ctnttccagt agatgacggg ccactattca tgccaacgtc 540
ttaaggcctg gcatgt 556

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<210> 6898

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6898

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ggactatagg cgcctgccac catgcccggc taattttttg tatttttagt agagatgagg 180
tgtagccag gatgggtctc atcttccgac ctcatgatcc gcctgcctcg gcctcccaaa 240
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agtgtgaacc tgattaacta gagaaggact ttgtaatgct tatgctaaaa tgaacacaa 360
aaatagctga actccagttt tggtttcaag atgtataagc aactaagcaa aaatcactat 420
atctgttttg aaaaccaaca tattctttta agtatttctt tttttgtaaa ggaataattt 480

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tattttctaatt ggtaaacttc taagtcaaac catcttnttc tgaacccaaa catgcatact 540
attcttgntt cttggg 556

<210> 6899

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6899

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tgtgccatct ataattactt ttgtgtgtat ggtatgaagt atcaagattt atttttttcc 180
tatatggata ccaagttttc taggtctggg ggttaaaaca attttccttt ctccattaca 240
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gtagaaaatg attctttctg tgaactttca agcttctgat acaagctgca atatcatgga 480
ttaattacat gacagcatag gataatgaat gagaaaaagc ccttggggaac caaccaatnt 540
gaatttgaat ccttt 555

<210> 6900

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6900

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atgaacattt ttagtttgag gattgggaaa ataaacctat tacattgatt aggcacagta 180

ctatggccaa tgggccagaa atcagggcac atctgtgtac tcaggcaaca gttagaggtc 240
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ttgttataag tctcaaatca gtacatgaga ttgtatgtaa cttgggttaa aaacaactat 360
acgtgctttc taaattatgt tgcaaagcca agacagacga atataattgt agcctcacta 420
caacttgnng tcttaatatc tatgtcacag gacatgtta tanggtgaga cagaattatn 480
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attggaccan ggttccaatt 560

<210> 6901

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6901

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ggttcagctc tgggcagggc ttggccaggg acagtgtggg gaaaaagaga tggggactgg 180
gagatgggac agcctcccat cgggggcacc ccacagggca gggctgagac acatccttcc 240
ggccagtgc atggggccaa acccacacc ttctcatccc tcgtcccat ccaggtgagt 300
aatgaagcag caagcccaag gccacacagc taggtcagca tcgtcacaca ctccggaacg 360
cacagccaga cacacacaca cacaccctgc cagcacagc acgcaggcac acacacaatt 420
gtgcatgcac acgcgttcat atattaactc tgatttatat gtgcacccta ccaganggca 480
atcgaaaaaa atctcttttag agaggaaacg actggctttt tccttggcaa ccnncaaaaa 540
cgtggggggg aaann 555

<210> 6902

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6902

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| cagtatatag | aaaatttaat | atgaaatcac | ttaaaatatt | tcaacattaa | gaagtcttaa | 60 |
| ttcagtgcc | tggcatgaga | catttaaaag | catgtttggg | tctaattctca | aattagttca | 120 |
| ggggaacaga | aatagctgaa | aatttatgta | tatgtgtatg | tatatatata | tatacacaca | 180 |
| catctgtata | tacatacatg | tatatattca | aattatatac | atataaagat | atttgtagat | 240 |
| tcaagatata | tagggattat | atatctatai | atattatatg | tgtgtctatt | tatacagata | 300 |
| tatatatata | tatattcatc | tttctgtgtg | tgtgtgtata | tatatccaca | cacacatata | 360 |
| aaatctactg | ttgcttagtg | gtggaattct | ctaattttac | tcatacgcat | attttgga | 420 |
| gcttatctcc | aaaaggggca | cattaatcga | catggaacag | aacccttctc | ttctacttta | 480 |
| attaatttca | ttttaaatta | atnatttcta | ttcttccctt | ttaactanta | atagccccct | 540 |
| ttaagggtgg | gaa | | | | | 553 |

<210> 6903

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6903

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| ggagacagag | tcttgctctg | ttgccctggc | tggagggcag | tggcataatc | tctgggtcaat | 60 |
| gcaacctcca | cctcctgggt | tgaagtgett | ctcctgcctc | agcctcctaa | gtagcttgga | 120 |
| ctacaggtgc | gtgccactgc | accagccccg | taaggggtgc | tagctttggt | ctgggaaaca | 180 |
| gtgaaatgaa | aaccacaagt | cacaaaccac | aaccaggcaa | agttctgtgg | ggccctccga | 240 |
| tgcattccaga | gcacactgtg | ggtttgttat | agtgaaacct | gaaaggtccc | atggagatgt | 300 |
| tgatcttcac | agtcccaaag | attctgttat | atccatgagg | gatgcctccc | tttccccata | 360 |
| ttcctggaat | tgagtccctc | gtgccatcca | gatttcaggg | gcacagtaca | aggcacagcc | 420 |
| ctataactga | cacatgatgt | aatcatata | tggaagatgt | tctgatgtcc | atganggtcc | 480 |
| aagancggct | aaaaaattgg | actgattgaa | ttccaagtgg | tgganaggnt | tccactagca | 540 |
| ttttggataa | anctctcaa | | | | | 559 |

<210> 6904

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6904

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ngtttttttag ctccatcagg tcatttatgt tcttctctaa actggttatt ctagtttagca 180
atttctataa tctttttttt aagattttta gcttccttgc attgggttag aacatgctcc 240
cttagcttgg aggagtttat tatccacctt ctgaagccta ctccgtcaa ttcataaac 300
tcattctccg tccagttctg ttcccttgct ggcaaggagt gtgatctgtt ggaggagaag 360
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ttacctacct ttgggccttg aagggtgnga ccttcanang ggggttctgg ctggaaggcc 480
ctttcgtga aggtgaagct attccttctn ggtccgtaag ttnccttct gaaagcangc 540
ttcc 544

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<210> 6905

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6905

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agatatataa aatgtggcaa aaatttttaa aaatatagga ccactatatt cttaaaatgt 180
gtgttcttct gtgtgtgtgt gticattcat tcaagagatc ttgactgca attaggtagt 240
cggctctata aaggcttcc tgtgtgacga taatttctaa aagtaaaatg ctccagtga 300

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tatttctgct aaataatcat atcttaaaat tacttttaaag aaattccaat ccctcatgtt 360
acattaagca ataatgccag tttccataa tatgccttag ttgtaccacc ttattcaggg 420
tcgacaatta attaggaaga caaaaagtat aaatcgcggtg tttattaagt agcagacaaa 480
ttcttggctg gctcaacata ttacnntaaa gggggtnatt tctaattttg aaataaatag 540

<210> 6906

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6906

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tgaatgtttt tcaaagtgcg taatttccaa ctcatccact tgcaatattt atccaattcc 180
agttcatcag caagaaaata aaatgtactt ggctataaaa atactgagga atgttatcga 240
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aagatttcaa attttcaact ttcaagtact tgaaaaaggg ttgcaacaaa gtgtctcttc 420
ccaaaaaagc aagaacagtg atcatgcagg tgtaaatctg cagacatctg angacactgg 480
gtatctngt tggctgcatt ctggcttcac tggganaaaa tggtaggcca ggcnttactt 540
ttgaa 545

<210> 6907

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6907

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tgggtgatttc tgagattttg gtgcacccat cacccaagca gtgtacacta tatccaatgt 120
 gtagtctttt atccttcaca cccctccac ccttcccctt gaagccccaag agtccactgt 180
 atcattcttt ctttttgaga cggagtctcg ctctgtcacc caggctggag tgcagtggcg 240
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 gaatggatgg catnnggcta agttccattt ttgcaantgg caaatggggc tggtttaaca 540
 agggggg 547

<210> 6908

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6908

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 atgatgtacc ttgggaaagg atagttccgt acagatcccc tagacttggt ggaagtcttg 180
 gggcaaacca aaatgaaatt aagactacac gtctcaatat atagtgaata gccttgagaa 240
 ggaatgatct tgatgtcaca ggaactttgt aattagtcca ctgggaaata attgtttaca 300
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 tgactcactc tctgtaggaa ttttcttata tagtattgac ctactatgac cctcaattcc 420
 catacactat cccccggcat attgatatct acaacccttg gngggattgg tgaatgaaga 480
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 caatgaa 547

<210> 6909

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6909

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agaaatctcc ctcagccgag acctaagggc cttctagaca catgcacgcc ttgggatctg  180
tctcctggga gctgtgacag attaatggga aacagatgat gtgaggttct tatctgatta  240
accacagag ctcattctta cctagaaaac agaaccacag gcagaaacag gtcacagact  300
tggggtataa aggagaggag gttttttatt tttattttta aaggaccaag cactgggagt  360
ctcctgctgc aaggggagac tcagtgtcaa acccatctca tgctgaggct tcagttggcc  420
actcangaac ctttgcaaca aggatgaaca tcttttggaa gaatgagana tgggttncaa  480
ggcttttttg agaatcagag gatcctggna ttaaaagaac cgnaaatngg aaatggggat  540
actn                                                                    544

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<210> 6910

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6910

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ggagacggag tctcactcga tcacccaggc tggagtgcag tggatgcgatc tcggctcact   60
gcagccttcg ctttctgggt tcaagtgatt ctctgcctt agcctctcgg gtagctggga  120
ctataggcat gcgccaccac gcccggttaa tttgttatgc aacttttaga tggctcaagt  180
catggataaa ctgagactat ttagactaga gaactggatg ggcttgacag tcttccatca  240
ataccactat tctcaatggg ttctgacaag aaatgagctg caaatgtctt taggttattg  300
cctctgtcta ggtccagaat tgcatatatt ctacactggt tgaaggtaag tttgtacact  360
ttcaagatca gatgaatagg ctggcaattc taaaagtiga ggattcctgt aataattgag  420
aagccaatcc aaaaatcgng ccttgcagga agcatccact ttccagntnc aagagctaan  480

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aggcaaatcc aagnnttctg gtcttcatga aaggtggaac ttaaattccc caatngg 537

<210> 6911

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6911

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 caggn 545

<210> 6912

<211> 499

<212> DNA

<213> Homo sapiens

<400> 6912

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 gttgcccana gggaanaagg gcgggtgggc anaaggaagg ggctggagac agatcatcag 180
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 aanggccttt tccattngg 499

<210> 6913

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6913

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 acaggcacgt gccaccacgc ccagctaatt tttgtatatt tggtagagac ggggtttcac 180
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 aagtgtggg attacaggca tgagccacca tgcctggcct ggtctctact ttttaattgtc 300
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<210> 6914

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6914

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gcaacctccg cctccccgggt tcaagcgatt ctctgcctca gcctccctag aagctgggat 120
 tgcaggcatc tgccaccacg cccagctaata ttttgtatct ttagtagaga tggggtttca 180
 ccatgttggc cagattggc ttgaactcct gacctcatga tccacccgcc tcggcctccc 240
 aaagtgtgg gattacaggc gtgagccacc gcgcccggcc cagctctaga ctgttttaaa 300
 gggcaccctt tccagttact ttttcccttt taacacacgg tgggagttca aatctccaaa 360
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 cttgacacta gcacggcaga ccagatggag tggacactga gctctgacac gcaagcccag 480
 ggaacccggg gaaggaactt gnatgaactt acaggcaaac cgtagcagac tgggaanaag 540
 tttganggggt accgnaa 557

<210> 6915

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6915

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 gccttcagag gttctttata tattctgata cacatcttta atcccttgta aatgctggga 180
 atttctgttt ttttaactca ttctgtggct tgnctattca tttcttaat gctgtctttt 240
 gatgagcaaa aactatgaat aagacctatt catcaaattt tcttttgaga ttagtgctgt 300
 gtctgtcca acaaatecct gctcagtttt aaaagatttc ttcatgtaag ctctgctatg 360
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 tccactatac tttataatta gntattggc agatnaagaa aaactatagc ccgggcctgg 480
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 ggagttggga ncc 553

<210> 6916

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6916

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tccatcacgc ctggctaatt ttttgtatTT taagtagaga tggggtttca ccatgttggc  180
caggctggtc tgtaactcct gacctcaagt gatctcaagt gatctgcctg tttttgcttc  240
ccaaagtgca ggaattatag gcatgagcca ccgtgcccag tcagaaaaca cttttttaa  300
gaacaatatt caaggacata atataaaaag tataatttgt cagaatcaga aacttctgaa  360
gtatcaaaca ctgcatttca ggcttagtca ttcagttaat cttttacatg aaaatcattt  420
ttacaatcag agctaatttt ttgcaaagta atctcactaa tttttaaccc aaatttgata  480
ttctgnccca gatcngaaaa aggtgagaat actgaaattg natntaaaag ggtgactaat  540
cattgactaa gnggacta                                     558
    
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<210> 6917

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6917

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gaatacaggt gcccgccacc acgccagct aatttttttg tatttttagt agagacagtg  180
cctcaccatg ttagccagga tattctggat ctctgacct ggtgatccgc ccacctcggc  240
ctcccaaagc gctgggatta ctggcgtgag ccaccgtgcc cggccgaaaa tcagttaact  300
cttcttagac ccaatagaga attgaggttc agggcaaact gctgctccca aaactggaga  360
gagatgtgac tacagaaaac cacagctacg ggtatcacia accccagcaa gagaaacaaa  420
cagctggagc cagtatccat aggaacactg taatgtaaat tgcttggagg ttcaacgtgg  480
    
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actagcttga gaattaaaag ctcangggat ggcaagctgg ctgggggaaa naccgaggaa 540
ctttctgg 548

<210> 6918

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6918

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gccaggacca ggatgaagga acgcacagat acggcaatgc aagcagaaag tgcatctgaa 120
accaacaagc gtgctcaccg tgctctccct cccgtgctgc ccgggggcag gcagggtgggc 180
aaggaggggg caggaagccc cccaggcctc acctcctgag tccccaatca gggcaggggag 240
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gtggccaggg ctggaaaagg aaggggacag atgtcctctn tttccacca tnccttaacc 480
ttaaggga aaagtcaaa cccttaagga aatcacccca gtaaaaagtt ccaaatcgaa 540
atntaacctt aacttatttg agna 564

<210> 6919

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6919

aagtctggga attgatttag gggtattcac actttcaatt tttccaagta agaataataa 60
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gatacacaca acagcatgga tgaaattcaa aagctttttt ttttttttt tttgagacat 180

gatctcactc tgtcaccag gctggagtag agtggtgcaa tctcagtttg atgtaacctc 240
 tgtctcctgg gctcaagcaa tcctcccacc tcagtctcct gagaagctga gactacaggt 300
 gtgcaccacc atgcccagct aatTTTTTtC atatTTTTtT ggagacaggg tttcgccatg 360
 ttgcccaggc tgggtctcgaa ctcccagact cgagcaatct gcctgcctca gcctcccaaa 420
 gtgctgggat tacaggcgtg agccaccaca tccagcctca aaaactTTTT tagnaagtaac 480
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 ttttaatngg gaacccatcc 560

<210> 6920

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6920

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 ataggcacc gccaccatga ctggctaatt ttttgtatTT ttagtagaga cgaggctctca 180
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 aaagcacctt ttgtatgtgg aacttgtcaa aagccctgca aaagtgtgaa gaattttatc 360
 tatgctccct ttctaactct caccatttat cattgacttt tacgtacaaa aaactattta 420
 ataccttctt atgtctgttt caaaaaataa ttttaagtga tcttctgaat ccttttctaa 480
 gaccatggaa aataatttca tcttttggtt acctttttca cccggaaata tctttctgga 540
 acatctttta nggggag 557

<210> 6921

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6921

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ggtagagaca gggctcttgct atgttgccctg ggaaagtctc aaactcctgg cticctgctt   60
tggttcccca aagtgttgga attacaggca taagccaccg tgccctgccca ttgttaatat  120
taaatgtact tcactgaatc ctaatTTTTT ggaaaactga tcagaagaca ctatctatgt  180
atcacatatg catatataaa tatccacaat caccataatt tgtgtatTTT actaaccagt  240
ttaatacagt tttctggctg tatgagagtc aaaaatcaca taaaagctt cataaacata  300
tcaaaataat cttttgattg cattagggaa cgtaaataaa agagttcctg gagatattaa  360
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atgagttagg tgctggagtt ctagtcttgg ctcctaact actggcttga cagcaacttg  480
aacatattca aatctcttta agctttagtt tctctctata aaatgaagaa tgcngattan  540
ggaactctat tagnecccac c                                              561

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<210> 6922

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6922

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gttgttgttg tttgtttgtt tgTTTTTtac actgaggcat ggtctctctg tgttacccag   60
gctggagtac agtggctatt ctacgttaca atcacagctc actgtagcct taaactctta  120
gctcaagcaa tcctcctgcc ttagcctcct gagtagctgg gactataggc atgtgccact  180
atactcagct tagactgcta tttttaatct taaattggct gttatataag caggtcttac  240
cttatataca aacttcttaa aggctgagct attttacaat agctaaatac aatagcacca  300
agttgagtcc taagcatata aaagaacatg gatattTTTT gaatggatct gaattttaca  360
tatatataat aattgtgtca ttactatTTT taaaacatt atgtgattac attttcagca  420
tataagctaa tgacattaat ctaggcataa catctaaca agaaatggta agcagtggca  480
acataaacac aatttatatc ctaattcata ggactttatt tttattcctg aaaaaccatt  540
aacattggn caaa                                              554

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<210> 6923

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6923

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ctttttgaga cggagtttca ctcttggtgc ccaggctgga gtgcaatggt gtgatctcgg   60
ctcactgcaa ctccgcctc ccaggttcga gcagttctcc tgcctcagcc tcccaagtag   120
ctgggattac aggtgcctgc caccatgccc agctaatttt ttgtatTTTT agtagagacg   180
gggtttcacc atgttgGCCa agctggTctc aaactcctga cctcaagcga tccacccaac   240
tcaacctcct aaagtgctgg gattacaggc atgaatcaca aggagatttt ccccccttat   300
gctcagcgct tctccttgct gctgccatgt aaagaaggat gtgtttgctt ccccttctgc   360
catgattgta agtttcctga aacctcccca gccatgctaa actgtgagtc aattaaacct   420
ccttcatta taaattaccc agtctcaggt atgtctttat tagcactgtg agaacagact   480
taaatacaat attgncatgg catatgacag cactgactaa aagaaaagcc ncttatttac   540
agaatctncc ttctntnt                                                    557

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<210> 6924

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6924

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ataacatatt taatttaatg cataaggtat aatgaactgg ttcagtttaa cacaattacg   60
taagattttt aatattatga acaacctgtt tggTTaaca gatagcagct ataaaactat   120
aatgtttagt ttgtttctcc tgcagactca gaaaataaat gttttctttt tgctttgcat   180
ttataaactt ttTgcaactc aaaaaatctc tttcagtatt caattttaat taatctagcc   240
taaagtataa tactcagcaa tctgtactat tctgacttta aaatcatatc aaatattaat   300

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aacatatatg ctcttaagaa agtacctttc ttgttaaata caactgacaa aatattcagc 360
 aaagtgtgta caatagtgcc ttgtatacat gtgtctttct agagctactt cagtataatt 420
 taacaatcat tgcacaatag cagatgtata atagtttcca tataaactat tatctaagct 480
 gtaaaatatg gacatagtca gcaaatacatt tctgagaaaa ggcatagatg gttatttcca 540
 actatctctt ttaggg 556

<210> 6925

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6925

aaatccaagt caaagaataa ctacagctctt tacagttatt taaatctgaa aactatttcc 60
 ctgaaaatga aatttctaag taatatacga atcaacttaa ctagactgaa acatttaggc 120
 tgatcttact ttatccttta tctcagtatc ttacctaacg gttctatatt tcaaagcctg 180
 acagatttgt ttggctggca tgatctgacc acttcctttc tatcgagaaa tacaattttc 240
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 gaagtgtaaa tgttaacatg gagataatgc aggtcagtat ttacatctt attagatatc 360
 tatataaaga agataagata gccgggtaca atggcccatg cctgtaatct cagcactttg 420
 ggaggacgag atgcaaggat tgcttgagtc caggagtttg agaccagcct gggcaacata 480
 gtgagacccc attatttttc ctttttttct tttagagacag agtctcactc tgncaactcan 540
 gctanantgc aatgggcgtg n 561

<210> 6926

<211> 470

<212> DNA

<213> Homo sapiens

<400> 6926

aaatggagtc tcactctgtt gccaggctg gactacagt gcacgatctt ggctcactgc 60
 aacctccgcc tcccgggttc aagtattct cctgcctcaa cctcccaagt aggtgggact 120
 acaggtgtgc gccaccacac ctggctaatt ttgtatttt tagtagagac ggggttttgc 180
 catgttgccc aggctggtct taaactcccg acctcagggtg atccaccgc ctcagcttcc 240
 cgaagtgtg ggattacagg catcagccac cgtgcccggc caaaacttct ttctaata 300
 tggaattggg tctgagaact aggtatgctc tacattttca cacaaaaaga attaaggata 360
 tggattctac aaaacatgaa catcctagag atagtggaaa aaacaaatc ccagtcgtac 420
 tcatttatca tacttctagt tctttctgag ggnntanggg gnaagggnnn 470

<210> 6927

<211> 499

<212> DNA

<213> Homo sapiens

<400> 6927

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 cccaggttca ctccattctc ctgcctcaac ctcccagata gctgggacta caggcgcccg 120
 ccaccacgcc cagctaattt ttgtatttt agtagagatg gggtttcacc gtggtagcca 180
 ggatcgtctc gacctcctga cttcgtggtc tgcctgcctc ggccttccaa agtgctggga 240
 ttgcagggtg cagccacgac cagccccgc taaccccagc cttttctaag agcagaaaaa 300
 tggatagatt tgatgagaga atcttatgag aatggtacat gaatttggat gtaaaatcag 360
 gttacaaatt aaagaggctt taaaagcaat gaataataa acacagccct gttaggctat 420
 tanganggcc ttggcaatga gaaaaantaa atattgaatt aanggataag natttcngga 480
 tttttggnaa ttcctgggc 499

<210> 6928

<211> 488

<212> DNA

<213> Homo sapiens

<400> 6928

gagacggagt ctcactctgt cgcccaggtt ggagtgcagt ggcgcaatct cagctcacta 60
 caagctccgc ctcttgggtt cagccattc tcttgcctc agcctcggga gtagctggca 120
 ctacaggcgg ccgccaccac gcctggctaa ttttttgnat ttttagtag agacgggggtt 180
 tcactatgtt agccaggatg gtctcgatct cctgacctca tgatccgcc accctggcct 240
 cccaaagtgc tgggattaca ggagtgagcc accgtgccc gccaacatta aggagttatt 300
 acagtgcctg tgtgatcacg gtatcaataa gttgggttgg ttttttttaa aaagagtcac 360
 atttttaaaa tatgnactaa tttacagatg aaacgggatg acaactagga ttgcttccaa 420
 ataatctggn ggganaagag ccnggagtta ccagaatagc cctgangnga aanaatgctg 480
 ctgggnga 488

<210> 6929

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6929

gttttatcc ttctgaacca catactttgt tctttttgtt tattactcat atacttaaag 60
 agcagtgggtg aaaaaggccc ttagaaataa tttcatctac tgccctcagg aaatctgaag 120
 cagatctgca ggcatatctt atctttgggtt tgtagcttct accctcctta caatcccata 180
 catttaaaat tccaatgtat aagtcttgct ggcttcatta caatccacct cagaataatt 240
 agacacagag caaattgttg gataatccaa ccttagttat attttcttct cagtccatga 300
 gacaaaaaag gattcaaca aaataaatac atgcttgaca aaaatgggac aaaagaagaa 360
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 ttgatgtact tgatatacct gctgncctaa aattgacttt catttctcac aattaatcgc 480
 ctttctgntt cgacaaggtn ctaaaatcta cacaattttt cagnactgng taaacctatc 540
 cctactaaaa gaaattttcc tcgaaga 567

<210> 6930

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6930

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ctttnctttt tttttttttt ttttgagaca gagtctcgct ctgncaccca ggctggagtg   60
cagtggcgag atcttggctc actgcaagct cctcctcccg ggttcacgac attctcctgc  120
ctcagcctcc cgattagcta ggactacagg cccccgccac cgtgcctggc taatTTTTTtg  180
tattttttan tggagacggg gtttcaccct gttagccagg atggtctcta tctcctgacc  240
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ccggccagaa tatcatattt tctactgtt ttccactcca ttggcaaaa gcctacaatt  360
ctttggcact gtattctact cagtgtgtaa ttacaataat tggcattaag ataagtngga  420
cggctgatat tctattttaat ttggacccca gggaaaanag aaaggtggtn aagaaacact  480
tcaaaaaaag ctttctaagg catattttnt gaataacctc cggttgngga ttccccaact  540
tgntttaang ggna                                                    554

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<210> 6931

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6931

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gagactgggt gtcaatctgt cgcccaggct agagtgcagt ggtgcaatcc tggctcattg   60
caacctccac ctcccaggct caagtgatcc tccgcctca gcctcccaag tagctgggac  120
tacagacgca cacacaaccc actacgtgcc aaccactgtt atgtgctgtg catatgcaag  180
ttttggttcg gttactttta ataacctata atactgagca cacaactgcc actcgtctcc  240
agggtctctt ggaacccaaa attcagagat tgctaggaat aatttaccac caaagtcaaa  300
taaaaccagt tagtcaacat tttttggata gtcaatttca gtaaacactt ccctgtctta  360

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ctatctatga aagacattat gatacagttc atcaaattctc ttgcaaacat cacgatagac 420
gtggacttct ggcatccct aaaggngcca tgtatgactt gngctggggt ganccatggn 480
gnccatgggc attacccttn cctttggaac tggtagaaac atgggggcna ac 532

<210> 6932

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6932

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gccttcacc ttggtcttcc aaagtgtgg gattacaggt ggcagccact gtccttgacc 120
caggatcaca tcttaattcg cctttgtata cccacacagc acctccacac acacgtggca 180
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tcaagttttt tgntttctct ctccctgga acaagagtct taagngattt cactagtcaa 420
acaacgtaat gacacaatac tacaaccac aggtatctac tatctacagg ggnccnacc 480
tttngcact tgaggaccag tttatgaaga cagtttttct atggaccang gttggggntn 540
gggggaaggt tnggga 556

<210> 6933

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6933

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cagatcaacc cactacctag gtagtaagcc cagtatccat tagctattct tcctgatgct 180
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 ctgcaaagga catgatctca tttcttttca tggctgcata agtattccat ggtatatatg 420
 taccacattt ctttatccag ctaccattga tgaaccattg ggttgattc catgtccctg 480
 ctantggnga atagnctgc aatggaacat aagttttcct ggtcttatta aanaaatatt 540
 cntttgcaa agtntaa 557

<210> 6934

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6934

gcctatgtta atgtaaatat ttcaaattctt accatccagg aaaaaaaaaa aatctccaaa 60
 ttgcactgta accagggaga tataagaatc tggctcttagg tgtggggagt actcttccat 120
 taataaacia aaggcctact gtattattaa ctaagagaaa gtataatgtg aatcatgtta 180
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 ccaagtggca nggaataggt taatcattan gantggagct caaaatatgg cagcctcatc 480
 agaaagacta ttattattct ctaaggttaa taagttgggg ancagttaag gaagccaaaa 540
 ttttcccccc aaaangggg 559

<210> 6935

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6935

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cctgagacgg agtctcgctc tgtcaccag gctggagtgc agtgggtga tttcagctta 60
ctgcaacctc cacctcttgg gttcaagcta ttctcctgcc tcagccacct gagtagctgg 120
gattacaggc acgtgccacc acaccagct aatTTTTgta ttttagtgg agacgggggt 180
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catgaagaaa ggaatgatca ggaaagttt tgtgaaaaaa ggaggaatgt ccaagaatgg 480
ccctggcana aggagaaaan ttaattcaa nttttaattc aagtttaaaa aacttcangn 540
ggnttaatgg n 551
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<210> 6936

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6936

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tttttgTTTT catgacttat attagttgat tctaataagag gtgcaatgtt ctctgcacag 120
aaccctaatg caggacaggc tattatgttc tgcattgccag tcaattacc aggcattctt 180
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gagaatatgt agtgttcatt ttctggtcct gaattagttt aagtttctta gaataatggg 480
cctccatctt atccatgtgc tgcaaaggat agaattctca tctttttatg ntgggtanaa 540
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tn

542

<210> 6937

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6937

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ggcgaaagtg actagaattg gtctatgcta aagaaagaaa gaaatacaac atcataccat   60
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aaatccagtg gcttgTTgtt gttgatgatg ttaatgatct ctggctaaaa attcaagtaa  180
aagagtcaaa ctgcttaaag cattaaaaaa gcacagcagt gtaaggctctg caatgatttg  240
aaaaacacta agaacactct tcaatgtttc ctcatTTgca gactatcaaa catgatcttt  300
gaagtcaagg attacatcta cgTtctTTta ccaatcttga atatataTtc tgttacaata  360
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ttactTTtag ancatatgga tctaattctg gattaaaaaa atcttccaat ttttaaaatt  480
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g                                                                 541

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<210> 6938

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6938

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gagacaaggt ctcaTctgtg tgcataggct ggggtacagt agcacgatca cagttcactg   60
aagcgtcgac ctcttgggct caagcaatcc tcccagatca gccttgcaag tagctggcac  120
atgccaacat gccagataa ctTcttaatt tctgatacag actgggtccc actatgatgc  180
ccatgctaag atttctTTTT taaatgctag aaatggatgt tgaagttaat atccctttca  240

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gtatttatgg aaaggatcat atgttctttt tttaatatgg tagtattgaa ttaacagatt 300
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 ttcaaagtgc tcgcagacac tatatggtaa aattttacac taaaatttaa cattaatatt 420
 cctacatata attctatagg tttatgaaag ctgncagcaa ttaaaaaata ttnactttca 480
 cttttgagan aatngnaaat tcncatggag ttgtttgaaa aaaggggaga ccccttttcc 540
 ctttaccen 549

<210> 6939

<211> 487

<212> DNA

<213> Homo sapiens

<400> 6939

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 tatagccgtg tgccaccaca cctggctgat ttttgtactt tttgtagaga cggggtttct 180
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 tgtaaaa 547

<210> 6940

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6940

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 tttttagtag agatgggggt tcacatggt ggccaggctg gtctcgaact cctgacctca 240
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 ctgggtggaaa gaggaatctt ggctgggacc ctagcatcnt ctagggaaca gagaggttgt 360
 gattaagagg tatctggatg aaatcttggg gaaaggaagc acttgTTTTT aatcccacca 420
 tggttnttca tatgcataca accatcctca aacattntgc ccatcagcag ancttctaaa 480
 aaggtngaca taccactgg ntatccctt cttggcaant ttaaaccaag ccttgccccg 540
 gnaatggnaa 550

<210> 6941

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6941

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 gcctcctgaa tagctgggac tacagacagg tgccaccaca cctggctaatt tttgngtttt 180
 tagtagagat ggggtttcac cgtgttgGCC aggatggtct caaactcctg agctcaggtg 240
 atccacccgc ctccgcctcc canagtgtg ggattacagg cgtgagccac catgcccagc 300
 cactgtgggt tttcttaatg tatgggtaga ggtggcttta ctattagcca gtgtgaanag 360
 tccttattct tgtgctttgg ccactatccc tgcactccca tcctgggaac atacctngt 420
 ttaggcttca ggccaaacat ttcattggca acctttggtt tatctttttt tccaaatatt 480
 tggttgctaa tgattggncc cagaactttc atataaaatg ggnaatccag aaaagaaccn 540
 ccctntgtct 550

<210> 6942

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6942

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gagacacgag tctcgctctg ncatccaggc tggagtgcaa tgggtgtgatc tcggctcact   60
gcaacccccg cctcctgggt tcaagcgatt ctctgcctc agcctcctga gtagctggga   120
ttacaggtgc acgccaccac gcccagctaa tttttgaatt tttagtaaag atgggatttc   180
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caaagtgctg ggattacagg catgagctac cgagcccagc cctaaaagac ttctttataa   300
ggagccatat tgctttgggg agaccgaagg ctgctgaggg cctcagggca gggttgatat   360
gcacctgcca gcacgccacc ataacatctt catggaacct taacactttc ttaaaagtgc   420
tccacctnct tttttttgac ccttaaagaa gagaccaact nttagtactg nggtggcaact   480
gngcctgncc ttttacctgg gcaggggact ggggtgacaca ttccccaaa nggnc       535

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<210> 6943

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6943

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gagatggagt ttcgctcttg ttgcccaggc tggagtgcaa tggcacgata ttggctcacc   60
gcaacctccg cctcctgggt tcaagcaatt ctctgcctc agcctcccga gtagctggga   120
ttacaggcat gcaccaccac gcctggctaa ttgtattttt agtagagacg gggtttctcc   180
atgttgaggc tgggtctcgaa ctctgacct caggtgatcc tcccgcctcg gcctcccgaa   240
gtgttgggat tacaggcgtg agccaccgtg cccagccaca agtaaatact ttatcccctc   300
atagaagcac acggtttttac tgcaattcag tagcttctcc tttttttctt gagacagggt   360
ctcgtccgt caccgaagct ggagtgcagt ggcgcaaaca catctcactg cagcttcaac   420
ctcctgagct caagcaatcc tctgcctcag cttccaaagt gctgggatta cangcgtgtg   480

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ccaccaccct ggccttaata atttcttttt ctttgaaaaa aggnctnact ntgganccca 540
actnggggtgc n 551

<210> 6944

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6944

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cctcattttc cccctttgag actctcactt tttattagtg ggagttctca ctcttatttt 120
tgctacttat gtctttttgt gcaatagatt gatagtgatt catatagtac acttggtgctg 180
aagcattttg gtgaactaag gtagcaatga agctttttat catttgtaga agtaaaagta 240
gtaaacaagg gagcagtaag caggttttta ttactattat aactcctatt ataagagttt 300
taaactcttc tattgctggg aactaatttt taaacatgga tcctggattg agtccgtgcc 360
acacttgatg gggtacatgt gccagttttg ttatatcttt aactatattt ttaactactt 420
gcccttgatc acctgtgtgt agaaaacaat tagtaaagtt aaatttttca caaacttctc 480
tttcagctgc tacaagtagt caagagctag gctattttga tagatagcat ttctcatnag 540
aagtctcctg ctgg 554

<210> 6945

<211> 498

<212> DNA

<213> Homo sapiens

<400> 6945

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ttcaaattcc acttgaaaaa gaggcagaca agcgatagtt gggatcccag cctgctcctg 120
gaggagctcc tgtgtccaca aaaaagcacg cacattctac agctatgcga tttgctcact 180

cggaattgca ttttgaaaa ctctcccag agtccccttg cagaacgcca tttgtgtctt 240
tagttggttg tagctgggaa acaacaacag aaagaaaagg aactccatcc taagacttct 300
tagaatatct tttgttttga aactactgac cctnaaggat ctaccaccac ccaacctaga 360
atatatatct atatatatct catatatata ttctcactga aaagcanatc attgtttatt 420
tcacttgctt tgnitgcaca tcggaccctt agggatggnn tnnggacacc tggctcttnc 480
ttcttcgtgg gatcctgt 498

<210> 6946

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6946

atTTTTTTga gacggagttt cgctcttggt gcccaggctg gaggcgaatg gcgcgatctt 60
ggctcacagc aacctctgcc tcctgggttc aagtgattca cctgcctcag cctcctgagt 120
agctgggatt acaggcatgc gccaccacgc ccggctaatt tttgtatttt tagtagagac 180
ggggtttctc catgttggtc aggctggtct cgaactccgg acctcaggtg atccacctgc 240
ctcagcctcc caaagtgcta ggatcacagg cgtgagccac cgtgccgggc acgtttcctt 300
taaagagctt ttttttgttt attttttgag acggagtctc gctctatctc ccaggctgga 360
gtgcagtggg gcgatctcag ctactgcaa gctccgcctc ctgggttcat gccattctcc 420
tgcctcagcc tactgagtag ctggggctac atgcgccgcg caccacactc ggctaatttt 480
tttggatttt taagtanaaa anggggttca ccacgctngc cnngatggct tgaactnctg 540
acctcngaa 549

<210> 6947

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6947

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aagtttcaaa ttattttattc attcaacaaa catgtcagag agaatgaac agtctagtag   60
caaatatttc atagagaaat ggacgtatca ttccaactca ccacgcccc aacttctgt   120
ggctcactcc atcttttgcc cctctaggga gcttcggtga tgtggatctg ccttggggca   180
ggaaagggga aggggaggtc aggcctagt gctcacgcct gtaatggcag cactttggga   240
ggcagagtca tgtggatcac ctgaggtag gagttcaaga ccagcctaac caacatgttg   300
aatccctgtc tctaaaaata taaaattag ccgggtatgg tggcaccgta tctgtaatcc   360
tagctactct ggaggctgag gcaggagaat cgcttgaacc tgggaggcag aagttgcagt   420
gagcccgaga tcatgccact gnacttcacc tgggggacag agcaagactc cgnttcaaaa   480
aaaaaaaaagt tggggggaag aacaaatgat ggaggtggag agggaacctt gttggagcca   540
cnaaa                                                                    545

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<210> 6948

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6948

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gagatggagt ctcgctctgt caccaggtt ggagtgcagt ggcgcaatct tggctaactg   60
caacctccac ctccctagtt gaagcgattc tctgcctca gcctcctgag aagctgggac   120
tacaggcatg cgccaccaca cctggctaatt tttttggtgt ttttagtaga catggggttt   180
caccatgtta gtcaggctgg tctcaaactc ctgacctcag gcaatctgcc cgccttggcc   240
tccaaaaatg ctgggattac aggcgtagc gaccgtgcct ggccaaaatt ctttcacaca   300
tacgtgttac aaacctgcgt aactccaact ctcaattcac gattaacgga ccttncaact   360
tttaacattt ctccaccgnt ctttaagaaa cctgaccctt cacgcaaaaa atnctgtggc   420
catgaattct aagactttat cnaatggtgc ttcgcttcac attctgacca ntacttttaa   480
gaaggaaaaa ttaaagttta gccaatatat tctgaggcct ntaacttaat aantcaggna   540
ttattttaag ggcc                                                                    554

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<210> 6949

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6949

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aagccttgac cctgagaagc atgggtgcgt cttgtcgtga gcaggttcat ggctgtgctc 120
catcctcagc ccgctgattt ttggtctttt gtcctttgat ccagcagttc ccacgtggat 180
gttggtactgc ttctgtcctt gatgttgatg ccgtgggcag tcaggccccg gcgcagggtg 240
tcgcatgctt ccagcagggg ctgcctttct aggagctgct gccgccgggc gtcccccggtg 300
gcctcgggca tggccagcgc aaactgccgg accttctgcc ggaaccgcac cagctcgtcc 360
accacaccat gcaaggtagc ctgctgccg ctctgaaac gtactgntga ttgcccagaa 420
aaaattccaa cagtttcaaa aaaactgttc aaagtangag atgatggcac ccaaacacag 480
caggacttct cggccctttn aggttccttt aaggaacgcc tnagctgccc attcncgtg 540
ggggttcaag ggccantn 558
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<210> 6950

<211> 526

<212> DNA

<213> Homo sapiens

<400> 6950

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tattactgaa atgaatgaag tgagcctgnc acttccagga aaacaacact tgntgccaat 120
gataaaattt gagttttcaa gcaaaaantta gcattttgga aaacatacat ctgccatcct 180
aagcttgaca gcttctcaat nctgaagact tatctgatga gactagtgnn aatattaaga 240
attatgattt ttgatatgg ttgataaaa tgagtcaatt ttcaggagat ctgtacaatc 300
taggtaacta atattttcca aatggccaat gacactgnnt taaaagcaaa aaagtcattc 360
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caagtgaag gtaaaccant ggatnttatg tcattgagta cataaagttc acaatatggg 420
ctttgattnc acattacaac ttttaagaca acntcaatta tcaaaagtta ctggttantic 480
aaatcnggac ntccgngtt tactgagaan ggtttctaata accctt 526

<210> 6951

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6951

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cagtgaagt tccgcctccc aggttcacgc cattctcctg cctcagcctc ccaagtagct 120
gggactacag gtgcccacca ctacgcccggt ctaatttttt gtatttttag tagagacggg 180
gtttcaccat gttagccagg atggtcttga tctcctgacc tcgtgatctg cctgcctcgg 240
cctcccaaag tgctgggatt acaggcgtga gccactgcgc ctggcctata ttcagaatct 300
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ataagacaga ccatagttca accagcacgt gcaatacctt gnaatgggta tggcnaaaag 420
gtatgtncan acaggacaag catggggaat atcacctggg aacatgggag aaatgacatt 480
ntaagcccaa tttcttttctt aatggactan ggcccacaac ctgngtttta caaggnttca 540
ggaaatnt 548

<210> 6952

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6952

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tcccaaagtg ctgtgattag gcctacgttg tgtgtcactt tcttaagaga cctacgttgc 120

taccgtgtct acagtagtct gtggctcacc ccagcctctg cagccccact gccctctctc 180
 attacctggc tttagtttct ccctaacact tacctcacct gtgtaagaac tccttcccat 240
 gagactgtga gctctgcggt acaggacact taccttccctg tactgccgca atttctatca 300
 tattccctgc ctctagggca atgcctggcc acagcagggtg ctccctaaac atttgccaag 360
 tgaactgtcc cttaccgagt cctcctccat ccccccaag cctggctggt gacctggaga 420
 gactcggggt agtggcaagg ctgcanggat ctggaactgc ctgggccttg ccactactga 480
 ngcctggcca ttcgatgnct tcctttgatc tgaaagtact ggggancctt aaaaanggct 540
 ntngggnaa 549

<210> 6953

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6953

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 ctctagcctt ggcctcccaa agtgctggga ttacaggcgt gaactgctgt acccagccag 120
 ttctttactt taaaattgga aactttagat gttcattcat tgccgttgat agttaaggct 180
 tgattcacta aaattcacia agatgcttat tttatgaatt attcatcaat acttggcata 240
 agtaccgct ggaaaatata attaggacia atctcttgaa aacgagtact ccattcttag 300
 aaaagcatna acaaaaccca ggctgtttcc tccccacgtg accccttctc cagggaacctt 360
 gccccaaagc tccaattgtc aggatggggc cagtgtggac caacagcccc tgagccctgc 420
 cagaccaaac acaccnaacc tngaccnca gaaggccgcc cagccgggtc acaagcttgg 480
 ncaggggctt ccaagtctgg ttacctagag aggcagttgn cacgccttga ccanggtggc 540
 cccatgnggg acagaa 556

<210> 6954

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6954

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gcattccaca tcccctatca ctatcccacc caggagagct gaaattccct ggctgaagcg 60
gtgcaaattt atttagcagc tcctgatagt acttttattt tatggttgcc aagaaaactt 120
ctctcaccga ctctccttgc caaaatgctc agacatgata cctggcagcg ggtcagctta 180
tagatgcact tagtgatgaa acacaagaag gccagaagtc ttcaggcaaa gacaccagga 240
gacaacagac ctttggtggc taagggtctc ctgaccatag cgccttgctc tgatagcaca 300
gactggatgc tgcggccaac agtacacttg gacctgacag tccaaagggc ataaaacagc 360
caacaagcca agtctcttcc ccagtgcaga cagccaagtg caagcttgac ccacagaaac 420
cactgggtcg gctttgcttt ctggangcag aatncaacca gggaaatgaa agcttttctg 480
atagccagtc acttaagggc aggaaggaca accnggatca aagaagcctt ggcagaattt 540
tgagagcccc cancnggaac aggatggttt 570
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<210> 6955

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6955

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ctttggagac agagtccccg tgtgttgccc aggctggatt gcagtggcac aatcttggct 60
cacttcaatc tctacctccc aggttcaaga gattcttctg cctcagcctc ctgagtagct 120
gggattacag gcacatgcct acacaccggg ctaaggagta aacatttttag taaccaagtg 180
gacactgaag atgttgagaa ctggtaaaca aacaatcaag caagtaagaa cagaaataac 240
agcatttggc ttttgagtta atgacaagaa cactcggcat gggagcctgg gtgagcaaat 300
cacagatctt caagcttctg taagtggcct gcattggggg tcaccgtggt gagctacgta 360
gcaccctgga gttccacagt gcttctctga gacagccaca gagatagaag gacagcttan 420
tgaggagtcc ccactacccc atcgaaangg gacttncatg aataataagt gcttgnacaa 480
aactaactct nttctataac tcttctgntt aaaaccttag ncttttttag aatnaaa 537
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<210> 6956

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6956

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ctctctctct ttctttcttt tctttctttc tttctttgag acaggctaca gtgtggttgt   60
gtcacgcagg ctagagtgca gtggtgcaat caacagctca ccacagcttc gaccttccaa  120
gctcaagcaa tcttcatgcc tcaatctctg gagtagctgg gactacagga gtatgccacc  180
gtccctggct aattttttaa acatttttta tagagataag gtctcaccct gttgcccagg  240
atgggtctcaa actcctgggc tcaagtcatc ctctgactc agcctatcaa agtgctggga  300
ttacaggcaa gagccactgc acccagcctt ctttttgagt gacaggactt gggctaaagc  360
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actcaacaaa aaaagacaaa caaccaattt aaaaatgggc aaaggacttg aatagacatt  480
tctttgaaga agacnncnaa gtgggccatg ggcccatgaa aatatgttaa gggccttggc  540
attangggaa agccaatcna a                                     561

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<210> 6957

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6957

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ggccaaggca ggcagatcat caggtcagga gatcaagacc atcctggcta acacggtgaa  120
accccatctc tactaaaaat acaaaaaatt agccgggcgt ggtggcgggt gcctgtagtc  180
ccagctactc gggaggctga gggcaggaga atggcttgaa cctgggagaa ggagcttgca  240
gtgagccaag atcgccaccac tgcactccag cctgggtgac agagcgagac tccatctcaa  300

```

aaaaaaaaa gaaaaagatg tgggactttc tctaaaccag tttctacaaa gaaagattcc 360
 agacaacaag cttcatttca aagaaacctg tgtctgcctt ttctgtcgca aaatgtagat 420
 ctgggtagag tttctttttt ttaaagctgc attgnactat ctttanggaa ttcaaaacag 480
 ggctaataat gggcanatat gcaatgcana tctgggctat acctgggatc cccgttttgg 540
 aaaatgccgg aaatgggg 558

<210> 6958

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6958

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 acaagtacct gccactacac ccagctaatt tttgtatttt tagtagagac gcgggtttcac 180
 catcttgccc aggctgggtc tgaactcctg acctcgtgat ccacctgcct cggcctccca 240
 aagtgtctggg attacaggcg tgagccaaca caccgggcta tttttttttt tttttttaag 300
 gagacagggt ctcgcctaga gtgcagcgat gcaatctgat acaatcatac ctcactgnag 360
 tctcaaagtc ctgggttcaa agtgatcctc ccatcttanc ctttgagtgg ctgggactac 420
 aggggcatgc catnacacc tggntcaaaa tttaaatttt tgnaaaaaac cggggtntaa 480
 caacgttgcc caagctgggt ttnaaactcc taagccttaa acgatcctat ggcttaagct 540
 tnccaaactg gtgggaatac ag 562

<210> 6959

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6959

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agttagaac agaattttat ttttgaaaat agaaaaatca aacaatattt ttaaaatgca 60
atctattgat gtcacatat ttggtttga atacctaaga atgcagtgac tgaaatgtct 120
gttctaaaaa cataaacatt ttttgatata agtaccaacc cactttaatt tatatgtgaa 180
taagagaact tcgcttgaaa aatacaata tacatattcg agagcactac caaattttga 240
agcttaatgn attcattgcc aacgtactgn cataactaaa agtcatttta aatgttttct 300
aaacaggagac tgatgtggat atcaacaatg gnttcacctt aaaactgagt tttagcattt 360
gnttaagtat atttacctat ttagttaaag ccattacaa taatctttca cccatttctt 420
tggggnttaa ggnnaatttc atttttttta gagatgggat cttgctatgg tgncccccac 480
tgatcaaaa acctgggctt caaaaaaac ctctgctna acctctgnc cacttgggac 540
ttcnaggggn gct 553

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<210> 6960

<211> 396

<212> DNA

<213> Homo sapiens

<400> 6960

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gaggcggagt ttgctcttg tagcccatgc tggagtgcaa tggcacaatc ctggctcact 60
gcaacctccg cctcctgggt tcaagcaatt ctctgcctn agccccccga gtagctggga 120
tcacaggcgt ctgccaccac gcctagctaa ttgtttgtat ttttagtaga gactaaaaat 180
atacatggga tattttattgg cccatgttgg gccaaactgtt ccatgttgga caggctggtc 240
ttgaactcct gacctcagg gatccaccgc ctttggncctt ccaaagtgtt gggttacang 300
cntgagccat tgcgcccagg ccctctnga nttttttaaa agtggcaagg gcttgcattt 360
tcaagntggc cttgaantct ggactcnagt gacctt 396

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<210> 6961

<211> 316

<212> DNA

<213> Homo sapiens

<400> 6961

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gccactctgt gttacttttc ctgaagtcag aatcggttga ggcacacact ggggcctgca 60
ggcatcgagt gagccnngtg gaggaacatg ttgngtcngc cgtttttgaa taccagggt 120
gggagcttgg ccactctgcat cccacttcc catagcccag gcagaggac agagaaatgg 180
agtggggagc acagagcagg ctccaacaag acaaattccc tggtncaaa ccaccatgat 240
ccactctgac ttggnccaca aactnngnta aaaacaattc tntacgttca ctgttcccaa 300
gggncattct aaacag 316
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<210> 6962

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6962

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gcatttcctc tctcataga gcaggtgtct tttcctctaa gtggttgaaa gagagctggt 60
attcataagc aattatgtgg gtgcttaaata gatatgatgt ggccacatag taaagtcaat 120
gatgactcat tcattaattc cacaagtctt tacggagtac ccactctgag ccaagtgcag 180
ggctggctac gtggtcaacc agtgctcccc atctgtcctc ttgggggtta aaacggactc 240
aacaacaagc agatgttgca caaattaata tatagtaatt aattgtaaca aaagctacca 300
agagaagccc tggatgctca gagaacataa tggggagact taattaagat aggggtgtca 360
ggacagacta cagaaagaag aatggaaata atgtggcagg gacaacagca gggagaataa 420
accattcttt aatatcttaa ttatgaagac ttcttcttnc attcttctat tagagtcenc 480
cannaanggt cataccagat gccatggcaa natgccttga natta 525
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<210> 6963

<211> 461

<212> DNA

<213> Homo sapiens

<400> 6963

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ccccctctgac tttgtgtttt caaataactt attttggagc tcatggattc tttcttctat   60
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ttgcaagatt tgatttccgt ttttttattt ttttcaattt ctttgttaaa tttctttgat  180
acatttctga attgcttttc agtcttatct cggaaatcac taagtttctt tagaactgct  240
attttcaatt tttatcagac agtcacata ttgccatctt gttaggatga gttactgggt  300
tcttgctttg ttcatttggt gagatcacgg ttccctcttt aggcattgtg cttatggatg  360
tatattgatg tctttgcatt gaagtattat ttatttattc caatgttctc tgactgggct  420
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<210> 6964

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6964

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aattaagaga acttttgggc taggcgcggt ggctcacgcc tgtaatccca gcactttggg   60
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aaccctatct ctactaaaaa tacaaaaagt tagcctggcg tgggtggtggg cgcctgcatt  180
cccagctact tgggaggcgt agaatcctcc agttgaggag aatggcgtga acccaggagg  240
tggagcttaa agtgagccga gatcgcacca ctgcactcca gcctgggcaa cagagcaaga  300
ctctgtctca aaaaaaaaaa aaagaaaaaa aagagagaat ctttaaatac agagtctgaa  360
gtaactataa cctagactct ggcttcttgc acatctgggt tactgnagtt attcacagtc  420
tcatgaagtc ccaatgcagg gtgacaagtg acacctgaga ctatttncag ggaagatccc  480
tgggcttcaa gttccnangt gcgcccttac aatgtcaaag cagaacttga ccagcacttg  540

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<210> 6965

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6965

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gttagtacct ctgctacca cactgccctg acacgctgac caggagagg acaggccaag 180
gtcccagaga gagcttctca acccacacag aacgggggac tcaggaggtg gggcaccttc 240
agggaagaat cacaggagcc agggacaagg ggatttattg agaaaggaa aaggccaggg 300
agaggttaca cgaggggtcg agctgggggt gtgcggaaga tggaggcatg ctggcagatg 360
gaggaagcag ggtgagtcca tggacacatg gacagatggc tctggtccgc aaacttctgt 420
ggcactgcag cctangcatt cctnctgccc atcgaggccg tattctggct acctgcaatg 480
gaatgaaan tggggcttgg aaagcccaat cctgagtcct tgcgtctgnc ttcangggat 540
cttccttca 549

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<210> 6966

<211> 533

<212> DNA

<213> Homo sapiens

<400> 6966

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agagacagag tctcgtcttc ttgccaggc tggagtgcag tggcacaatc atagctcaat 60
gcagccctga cctcctgggc tcaagaagtc ctccccgctc agcctcccca gtagctggga 120
ctatcggcat gtgccaccat gcttggataa ttttttaatt tttttgtaga gatggggctc 180
tgctatgttg cccaggctgg tctcaaactc taggcctcaa gcaatcctcc tgcctcagcc 240
tcccaaagta ctgggattac aggtgtgggc caccgtgcct ggccaacatt tctatattat 300
ttcatttctt ttgaacatgt atagctttca taatctccat cttagaaaat aattgagtcc 360
tcttaaccag tcctctggct catgccagct cctggatgtt gtgctgacat ccagcatttg 420
ctcattcttg tggggctgta gggaatttca aggtcaatgc tgagctcttg aaaccaag 480

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ctacaaccct gggctgnaca ttacaatcac tggggcgcct taaaaacact acn 533

<210> 6967

<211> 529

<212> DNA

<213> Homo sapiens

<400> 6967

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 tccaggccac tgatccaggc cataagaatt tcagtatcca catatgtaaa aggttttcta 180
 caacaatcct atgaactagt taatatectc acatacacat tttacttctg agaatgaggc 240
 ttttaagcaga aaaggtgatt atttttatat tgagagccat gtcgtcaaca gcagatagat 300
 ctgattatgt ccaagtttaa agtaaacata aaaatattta taaacttcag caaatttgat 360
 ttatacagta atgtaacacc cgatggtgcc gtttttacta caaaaatgta tttttgaaaa 420
 ttggtatttc acttaacttt tttctgatag tccaagatt cttaaaggac atcataaatt 480
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<210> 6968

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6968

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 agtagctggg attacaggaa tgtgccacca tgcccggctg attttgtatt tttagtagag 180
 acggggtttc tccatgttga tcgggctcgt cttcaactcc tgatctcagg tgatctgatc 240
 cgtcctcctn ggcctcccaa agtgctggga ttacaggtgt gagccactgc gccgggcctt 300

ctgctgtctt ttttcattca aatcattgat cttcggtgtt cttggtgtga cgggtaattt 360
 ttctgcagta tcctgggcat tttggatatt atgttagaag actgatcttg ttaagtgtta 420
 aatctctatt tgancaggct gtcaccctgt ttanggttcn gcgtgtacag cctgggtcttt 480
 ttggangctt ccggttccaa tgacaatttg cttttcanaa tgcttgctnn aatgcttttt 540
 ggt 543

<210> 6969

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6969

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 tattaggcgt gtgccaccac gcccggttaa tttttgtatt gttagtagag ttggggtttt 180
 gccatgttgg ctaggctggg ctcaaactcc tgacttcagg tgatccacct cccttggcct 240
 cccaaagtgc tgggattaca ggcgtgagcc accacgcca gcctgtaaat cttgacaaaa 300
 ttcccagagg caaaattatt agaaggctgg gagccaggat taaaaaacat aaaatccttg 360
 gcttttccat ttatttcaca ttgcctcttc ttagaatcca cttctacacc aaagcagtta 420
 aaatcaatgt ggatttgtat tttaatagaa gggttatggg agtagtggga aaggtagcaa 480
 ataataacta tggttattgg atctactggg cctaacattt ggacctatcc aatcatttaa 540
 n 541

<210> 6970

<211> 330

<212> DNA

<213> Homo sapiens

<400> 6970

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aatgatggcn ggtagaaata aaaacattta atctgggctg ggtggagtgg ntcacncctg 120
taatcccagc actttgggag gctgaggcaa gaagactgnt tgaggctagg agttccaggc 180
aagcctgggc aacatagnga ccctcatntt tncaaaaaat taaaaaatta gttgggcatg 240
gnggnntatg cctgtagccc ctggctatta gggaggctga ggtaggagga ctgnttgagt 300
ccnggaggtc aaggctgcan tgagccaana 330

<210> 6971

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6971

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ctcaagcgat ccacctgcct cggcctccca aagtgccagg attacaggcg tgagccaccg 120
cgcctggcca cacaaggcat tttggcatta acgtatcaag tcttaaaaat ctgtatatca 180
tttgtccccc aaatttcatt tctagggatc tgatgcaaag aaatagatca aatatataaa 240
aagcacgtac cagtacagta ataaaaaaat ttgcagctgg gcgtgggtggc tcatgcctgt 300
aatcccagca ctttgggagg ctgaggcagg cggatcacga ggncaaaaaa aagttgtaag 360
gaagtcctcc ataaatttaa gaatccattt gattcttttt atttttctga gatatggctt 420
cactctgttg cccaggttgg aggacagtgg cccattgtg ggtnactgca atcttgacct 480
gnttggcttn aagngacctt ctggcttagg ctccaagcnn attgggcttc ngggccccc 539

<210> 6972

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6972

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 actacaggca catgccacca tgcccagtta atttttttgt agagacagag ttttgccata 180
 ttgcccaggc tcctctccaa ctcttgggct aaagtgatcc acctgcctca gcctcccaga 240
 gtgctgggat tataggcatg agccactaca cccggcctca tatgacattt ttaatgggta 300
 agatacaatt aatttactgt gtgaccctgg acaagttaac tctgaatctc agtttaacct 360
 ccaatagatc agggttacag gacccatcac ttagagtagc tatgaaagtg acaagagaag 420
 gctttgtaaa atactaggna tatataatgc ttggcaatag tgnatggttt ggaagtattc 480
 atgaatttta atcatttaag gnttaatggg aaattttctg ggtaaacct acttatntta 540
 aan 543

<210> 6973

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6973

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 gcaaaactccg cccccagggt tcaagagatt ctctgcctc agcctcccga gtagctggga 120
 ttacagtcac gtgccactgt gccagctaa ttttgtattt ttagtagaga tggggttact 180
 ccatgttagt caggctggtc tcgaactcct gacctcaggn gatccaccgg cctcagcttc 240
 ccaaagnct ggaattacag gcatgagcca ccgcgcctgg ccccaaactc catcttgaat 300
 cgtactcctc ctgtaagtca cacatgttgc tgggggggga ctggtgggag ataatttgaa 360
 tcatagggta ggtttcccc atactggtct ngggaaagg aaataagnct caagagatct 420
 gaagggtttt atcaggggtt tccactttta catcttcctc aatttctctt gccgccccca 480
 tttaaaaagg gcctttaact tcccgcattg atttggangc tccccagcca tgggg 535

<210> 6974

<211> 533

<212> DNA

<213> Homo sapiens

<400> 6974

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gagagagggt gttgctctgt ctgcagtcac agctcactac agcctcgacc tcccaggctc   60
aagcgatcct cccacctcag cctcacaagt agctggaact acaggcatgc gccaccatgc   120
ccagccaatt tttaaatitt tagtagagac aaagcctcac cgtgttggcc agttgaactc   180
ctgggctcaa gcgatgctcc cgcctcggcc tcccaaagtg ctgggattac gggtacaagc   240
caccacactg ggcctacttc tttatcaaag aagcccttcc tgaacaacac agaaaccccc   300
ctagagggtc cgtaatgaga accgaacaga aaaacccccca actcaggttt gctgggcaat   360
ccttcttttc cacagaagct ggaccagggt ctgttaccat taaaaaata ctggattcaa   420
tatttttaaa gacnagaagg gaaagagaac aggttcttgc aaagagaggt acagctngat   480
tctttcaagt cacacgaact ccngacttc ggggccaaac cagccggctt ang           533

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<210> 6975

<211> 514

<212> DNA

<213> Homo sapiens

<400> 6975

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ggctgcactg gaggccactt cccagtgggt cactgctgcg ctgggtgtcc ctatgcagct   120
agatacatgt taactgcata gagtaccata aaggagccca ctggtgagct tcaactgtcac   180
ctggccctgc tggctggggc ttccattgtc tactgggtct gtccacacce cagattgcct   240
tgtggtcctt tcccctggcc aagaagataa cagtttttta aaaatcccct tctgatatgg   300
atgtgagcaa gcagtggggg tcagtttggg accaagtagt gccatttaca aagagcatgg   360
gaagcacctc cttaggaggg gagcagggcc atctccacgt tgtcaggggc cgcgcccgtt   420
gcctgccaga ccctgggccc acttgtgcan gcggctgtan antgggaagc cctgggtntn   480
acgggcaaag tagaccccgg ngaatgnatt tcct                               514

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<210> 6976

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6976

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cgagatggag cttcctctta ttgccaggc tggagtgcaa tggatgcgac tcagctcacc 60
acaacctctg cctcctgggt tcaagcgatt ctctgcgctc agcctcctga gtagctggga 120
ttacaggcat gcgccaccac gtccggctaa ttttgtatct ttagtagaga cagggtttct 180
ccacgttgct caggctggct tcgaactccc aacctcaggt gatccacccg cctcggcctc 240
ccaaagtgtg gtgattacag gagtgagcca ccgcgcccg ccattcttac tttttcttta 300
gtttgtatta ttagtaaaga cagggtttca ccattttggc caggctggct tcaaactgct 360
gacctcaagt gatccgcccg cctcggcctc ccaaagagct ggggttacag gcgtgggcca 420
ccgtgcccag cctactatct accatattgg ttcattccaa aacattaaac cttatatctt 480
tttaattntt aattttttga gaanggggtt tgccctttgt tggccaagtt ggagtgcaca 540
g 541
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<210> 6977

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6977

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gactttaaaa tgtttattct ttaaaaaatt agttgctttt tatacagcta tacaaagttc 60
ttaatgtttc tttggcaatg gaatataatg gaattttaca actatataaa aaagttacct 120
ttgcctaaga aacagtatct actgtgtgta catagttgac tgacaaaatt ctctaccatc 180
cagcacccta attaattgac gaaataagct acctcatatt acaggattcc ccaaaagaaa 240
ggaggaaaaa gacacacaca tacacacaca cacacacaca cacacacaca cacacacaca 300
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accttctgtg gctcaaaaca cagtatcacg gccctatntg caggcaactt gcaattgccca 360
aatacaattt agtgataaaa aaaaaaaacc tttcaagtga tggaaaaaat acttgттаag 420
tcccactgaa gtactgcttt aggttaacta tncntangaa attacttaaa cttctgcttt 480
tccaaatntn ttaatngctc atggtttaaa gatgagcctt tcnaccccc aaaggtacct 540
g 541

<210> 6978

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6978

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gccgttctcg cttatggttc cacctttggg gacgagcagg ggtaaagctt attgggaatg 120
gcagcctcct ccttgagacc ccaccctttg cgttttttgg atcaaggag ttaaaacagt 180
ttattgccta ctgcatatgc agcaatgatt tttcaatcac ttatttttt tgacaccaat 240
cttgttcact gttataattt ggactcttgt tgactaagtt caatattcaa gaattcttgt 300
gggtacatca gaaaaactcg gtggggaaga actattagaa tgaactctag ctgtaattca 360
ccagggtagc aaganggtta agaagacagc agggaacccg tgangtactc tgggttnaag 420
gatcccagtc ttttgaaacc acanggtgga canggcttnc tcagcttaag gctggagcaa 480
aatgggcaat tctgaagctc atgtactttt gaaaatattt aagagtacca gnggctaaag 540
c 541

<210> 6979

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6979

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 aaagccaaat tcagaaataa gagctgatac gtgcagacag tgacaatgta gaaaccagct 180
 cccacgttcc cagcgagttc ccagcaagtt ccccgcggtc cctccacaaa tcagcacaga 240
 gcaaatacatt tcacactggt tgtatcaagt gcttggcaca ggaagatgcc acaagggtcaa 300
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 ggctcatgcc tgtaatccca acactttggg aggattgccc gagcccagga caggaggntg 420
 aggcttgcag tgagcccaag attgatcctg ctactgnact tccagcctgg gagacggagc 480
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 act 543

<210> 6980

<211> 504

<212> DNA

<213> Homo sapiens

<400> 6980

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 ctacaggcac gcaccacat gctcagctaa atttttgtat ttttagtaga gacgggggtt 180
 cactgngtta gccaggatgg tctcgatctc ctgacctcgt gatctgccc cctcggcctc 240
 ccaaagtgtt gggattacag gcatgagcca ccgcgcccgg ccctgtgcat tcttatttca 300
 tagttctctc tccatcttcc cagggtgtgca tgaactgttt tgcaagtaca ccccgatgaat 360
 tttaaagaaa tggnttactt ttattagtta ctacatataa tttttttaat tggattngga 420
 aagcttttta aaaagctgaa caatanttgg gtactttatc tactaaaggt taagggaatn 480
 gatntttact cccaatnaan ngaa 504

<210> 6981

<211> 511

<212> DNA

<213> Homo sapiens

<400> 6981

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cccgggtccc ttccgcctgg gttcacgttc acgtttattc aaacaacaga gccgactcgg 60
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ccccacaccg ctttctggag ccgcagagg gaggcagggg cgtccccggg gacagctcag 240
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gtcgtcgggg gaagcgcggg gcacgtgctc gcaggtgatg aggtgggtgg gcagcgcctg 420
ggtgtcgtgg aaaatgacca aaatctgggc ttggcaaaag cannccacgg ggctttnta 480
anccaagaac ncctgggcn gaaccccaa a 511

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<210> 6982

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6982

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aaagtaaagg caatgaccta agctaattcca gggaaaaatc tgtagctcct gtaacacagc 60
ctcctattga agaattcagt gctgattagg acctgtctca tccaaagggt tactactaga 120
attaccagaa gaccgagtag catgtatacc tttattctaa tctcctgaaa aaatttagaa 180
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atatgatgaa aagcaatgta taaaattcta tccaagaaca aatttgtgat gttcaaaaac 360
aatcctttgt tatattgaca atatagattt aaatatagct ttatataata agtttgtcag 420
ggtaaagtca gaaaggatgt gaactgagaa gactgcanaa agtttctggg aagggaaaaa 480
atccacttct ttaantggtt tcccaagggt naanggggtc naaagncatt cttt 534

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<210> 6983

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6983

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gatctcttta tttttatattt tttttttttt tctctcttta cacggcaaca gggactttgc   60
agatgtgggtt aaggtaacag attttagat gaggggatta tcctggatta tcgggtaggc  120
tcaaaataat tacatgatcc tttaaaagca gagaacattt cccgacgaaa gtcagagaga  180
tgaggcctcg tgagaaggat tccacacact cacactctcg ctggctctga gatgtaggtg  240
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cgcagggaag cagggacctc agtccatcag gcaaattgaa ctgaattccg ccaacaaggc  360
gcagaggcct ggaaacagat gcttcattag agcctctagg agggagtaca gcctggccaa  420
caccttgatt tcagccctgt gaggcttgaa gcccacacac cancccgggc ccactggact  480
tttnacctac agaactgnga nggagtaatt tgctatatttt aanccggtaa aagggggcta  540
a                                                                                   541

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<210> 6984

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6984

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gagacggagt ctcgctctgt cgcccaggct ggagtgcagt ggcacaatta cagctcactg   60
caagctccgc cccctgggtt cgcgccattc tcctgcctca gcctcccaag tagctgggaa  120
tacaggcacc cgccaccatg cctggctaatt ttttttgtat ttttagtaga gatggggttt  180
caccgtgtta gccaggatgg tcttgatctc ctgacctcgt gatctgcca cctcggcctc  240
ccgaagtgat gggattacag gcttgagcca ctgcgcctgt tcccaggaag ctcagagtct  300

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ctcacaggcc ttttcagttc ctggggctct catatttcct cattctccca gactcctctg 360
 accctactct tctcaggttc ttactgctcc tgtgggaaat cagaaagagc agccagcaga 420
 caacaccaac tgagatgaat gccnctggaa tggcacangt cagtatggca agaaatacca 480
 tgggctaata gtcaanacca tggtatgaaa gncncaatgg ggtggngaaa ttcacttccc 540
 n 541

<210> 6985

<211> 539

<212> DNA

<213> Homo sapiens

<400> 6985

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 ctacagatgc ccgccaccac gcccggttaa ttttttgtat ttttagtagt tagccaggat 180
 ggtctcgatc tctgacctc gtgatccgcc tgccttggcc tcccaaattg ctgggattat 240
 aggcatgagc cactgcgcct ggcccaagaa gctaattttc atatggaaca tatgaagaag 300
 aacacttgat gtttactagg ggacagtcac catgcttgca cagcaatttt aataagttaa 360
 ctctaggaat tatgaaacaa gcgccaaaaa gcagtacat catcacagag tcataggctg 420
 ctgttatagc tgggaggaaa catgggtgtc acctacttca acactttaat ttccgagatg 480
 tggcactnan accattcgga aagtaagaag acnttccna tgcggnaaaa ctaattagn 539

<210> 6986

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6986

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aaaaggaaag aatgtgtcac ctcttttcta tcacaattgg gggcttaaga atgcaggggt 120
 ggatgtatca acccccagaa agttacaagt ttaagccagg aattctggcc aggcaatcat 180
 ttttagtaat acccttgagc ttatgggagt ggaagtttgt attttttttt ttccaaagta 240
 cattactact aatgataata gttttcatta gttctagtca ctgggcttag cgttttccat 300
 attttacctt catagcaacc tatgaaacct gtgtaggaat tgacatttga tgacaaggtc 360
 tgttcaaate cagcacccat gtgttactta ccactcttta taatttttta aaagagattt 420
 ctcttctga atccctatct ttttttgaat ggccgaatan gaaaaattaa aatctgaaaa 480
 gctcttanaa aatctgggtc aatattngaa cctagaaatg gctgggttcaa ggan 534

<210> 6987

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6987

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 gggactacag gtgtgtgtgc cgctgtgccc agcaaatttt aaaaaatttt ttttgtgata 240
 gatacagggt ttccctatgt tgcccaggct ggtctcaaac tcctgggctc aagtgaccct 300
 cccacctcag cctcccaaag agccgggacc acaggtacaa gccactacac tccactaaaa 360
 aaggctttta aaattagaat catcacagta taatttccat atatagaaat tatttaaatc 420
 cccaaaaatt acctttcttt tttctcatac agggggcatg tggcttatgt aggaacctca 480
 agaaactaat ggatatttgc ttttgaatc cattaactgg gccaatgggt tagccagttg 540
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<210> 6988

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6988

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aaaaatgcct ggaaatcact tgctagttac agagatacat ctcaaagcat aacaagttta   60
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gtaggggtat atgcgaacac taaactcadc tccagccaga tgctctttgt aactgccacc  180
atctcaaacc tgcctagta attaactcact atgttaggag aacacaaatg tttgtaaaac  240
gcggtcgcca tcatcatagc tacaatacag cagtgtagcc ctctgtttt ctacaaaaat  300
aactggcadc tatttaatac ttcggtgtgt ataaaaacag aaaacaaacc taacaaaatg  360
gaggcagtct tattagaata ttatcaataa ataatatgca cataatattg tcataataag  420
tgtcaattca cacttggacc atacagtacc tttgtccaga ctaaattctc tataacctct  480
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<210> 6989

<211> 533

<212> DNA

<213> Homo sapiens

<400> 6989

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tagaggcacc tgccactgcg cccagccaat tttttgtatt ttttttagta gagacggggg  180
ttcacctgg tctcgatctg acctcgatgat ccacccgcct cggcctccca aagtgtctggg  240
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cctttgggtc aaacttcctc ctttagctcg gagtagtttg atcttctgaa gccttcttct  360
ctcaactcgt caaagccatt ctccgtccag ctttgttcca ttgctgggtg ggagctgcgt  420
tcctttggaa ganganaggc gctctgattt taaaagtttc cgggttttct gctctggttt  480
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<210> 6990

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6990

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ggctgaacta cacctgatag atacctcagg ggcgtttccc aaggggatgg atttagatca 360
agttagcagg aggaatggtg gctgtcacia ttttttatat tcacgtaagg atcgctccct 420
cagaaatcgc caatattggc ttccccaaga aataacctca tttccttttt taacctaaag 480
ccgtattatt cttgccactt tttttnaatc tataaaaact ggngttaaat tttttggttt 540
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<210> 6991

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6991

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gcatgttggt caggctgggt tcgaactccc gacctcaggt gattcaccca cttcggtctc 240
ccaaagtgtt gggattacag gcatgagcca ctgtgtctgg cctttttttt tttttttttt 300
tttttttgct aatgtaaaag atcatagaat atcagagata gngaacatta tcatttccat 360
aaatgtacat tttccacacg ctgagtacta tctaaatit ctattgataa actctgacca 420
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ctntttcagg caattcatgg acttacttta gcattatcat taangntgaa aggtctagaa 480
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<210> 6992

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6992

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ttcttacctg gggtagctgt agcatctgca cagcggcagc gtccttcac tgtagaagct 120
gaaaggccca gatactcctt ctgcccttgg caatgaagac acacagtgcc aaccagaagt 180
ttgcatctta agtgtggtga ctcacagaca cagggacaat caagaaatca gtctaacagc 240
agcggaggaa tcataacatc ttatgtagat ttcattcttt tatgagcctg gcttatttca 300
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cacctgaggt caggagttag agaccagtct gccaacatgg agaaacctgn ctntactaaa 480
aattccaaan tagcaggatg tgggtgtgca tgcctgnaat ccagttgtt caggaggccg 540
acccaggaaa attggttgn ccc 563

<210> 6993

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6993

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tccagaatcc ctagtgcata tgggtgtgcaa aagtcaaac gtaagaaaag aaaactcctc 120
ccttgagagt gaagtctaca gaaatgcagg ccagaaaggt gtaaggtgtt attccagtct 180

gccgccgcta aggccgttgg gatcgacgcg aaagatctca atagtactaa gaacccaaaac 240
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 ggacaaataa accaagagtt aattttggct accaaaactgc aatttggttt tctaggtcat 360
 tttcccccaa ctatttaaaa agaaacatta gtgctacaca tatgcaactt taagatgctg 420
 gattctccta tcaagttgca ctgagaaaca agtgaaataa gccctcgga ctggccgtca 480
 cctgccagac gtcacatcca tttcttggat ttccattggc acagcnggga ataattccaa 540
 tagggctgaa gtaacnc 557

<210> 6994

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6994

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 tgtcctaaag ggaagtcaca gcagcttagc tgtttctcac agatcagaga ggatgggtggg 180
 gcagccagga gtcacagta aaccaggtg agcagtgacg gactgaatgt cgctgtccac 240
 ttgcaggtgg gagtccatgt ggagggtgct ctttcttggt tctcattggg acggtgactg 300
 tgtatagtgg aaagcacaga gccaatgagg gacaggatgg ctgtggtgga gggaagacag 360
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 cgcaaggtg tggctggcca ttcctttcct cgcgttgggg tttctccgtg tcagcgagcc 480
 tcggtacact gatttccgat caaaagaatc atcatcttta ccttgacttt tcaggaatta 540
 ctgaactttc ttntcaaaaa anag 564

<210> 6995

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6995

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cttgagacag agtcttactc tgtcaccag gctggagtgc agtgccatga tctcagatca 60
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gattacaggc gtgcaccacc atgcccggct agtttttgta tttttagtag agacgggggt 180
tcaccatggt ggtgaggctg gtctcgaact cctgaccttg tgatccgcct gccttggcct 240
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ctttagggtt ttcaaagtaa acaatcgtat tgnacgaaa cagtgaccgc ttgacttnc 480
ctttactgat ttggatgccg ttaattctt tctcttggct gatgctctgg ctaggacttt 540
caaggctatg ttnaaaagn 559

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<210> 6996

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6996

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cttttttgag acagggtctc actccatcac ccaggctaga gtgtaatggc atcatcacag 60
ctcactgcag cctcaacctc tggggctcaa gcaatcctgc tgcctctgcc tcccagtag 120
ctgggactag gtgcacacca ccacacctga ttaatttcca cattttttat agagacgggg 180
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tatacagttt ggtactatat gtggttttca gacatccact ggggattttg gaatatactg 420
ctgtacagga cacataagga aatgcatagg agataaagtt agagaaaatg tccattataa 480
gtgggtctgc atttcaaggt naagcattcg gctttatcct gnggacaatt aaagaattag 540
gaaatcttnt gatagaatag ga 562

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<210> 6997

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6997

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ggaacaagac agagtcttgc tctgtcaacc aggctggagt acagtagcgt aatccccggt   60
caatgcaacc tccgccccct gggttcaagc aattctcctg cctcagcctc ctgagcagct  120
gggactacag gtgcccgccca ccacatccag ccaactcctg tatttttagc agagacgggg  180
cctcaccatg ttggccaggc tggcttcaca ctctgacct cgtgatccac ctgcctaggc  240
ctcccacagt gccgggacca caggcatgag ccaccgcacc cggccaggca ttgatttctt  300
aacaggaca caataagcag taaccataaa ggaaaagatt gataaagtat atttcattaa  360
aattaagata cnttggccgg gtgcagtagc tcatgcctat aatcccaaca cttcggggagg  420
ccgaggcagg tgtatcactt gagcccagga attcgtatcg ggctatgcaa catgggaaaa  480
cccatgtnt agtaaaaatn ccaaaaacag tgancatggg antggctctg taggnccann  540
ttctttggg                                     549
    
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<210> 6998

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6998

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caatgttcat tgcagcttta ttgttaacag caaaatacta aaaacaaaac aaaaatccta   60
actgattaaa tgacatcatt aggaaatggc taaagggtgtt attgcacatc catgcaatgg  120
cctttttcct ttttaagccag tgattctnaa ctgggcacaa ttttgcccga tctagcaatg  180
tctggagaca ctttggttgt cacaacagtg gaagaaggta tgccatagca cctaattgggt  240
agaagccagg gatgctgcta accctccttt gatgcacaag acagccctcc acaatgaagt  300
    
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atattcagtg canaggggtcc ttgacttatg atgggattac atctcgataa acccattgta 360
 agttgaaaat attaatgttt atgagaaccc atggacacag ggagggggaac atcacaaact 420
 ggggcctgtc ggcggttgg gggcaagggg agggagagca ttaggacaaa tacctaatagc 480
 atgtggggct taaaacctag atgacaggtt gacaggtgca gcaaaccacc atggnccatg 540
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<210> 6999

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6999

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 ttacaagcat gcgccaccaa acccagctaa ttttgtatit ttagtacaga tggggtttct 180
 ccatgttggt caggctggtc tcgaactccc gacctcaagt gatctgccg ccttggcctt 240
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 cagacttggc ctcttgggt tangcaatct tctgcctaa tcttcaaag gaactggaag 420
 tgcaagcccc gtggctggct aatttttgn tttttggtg aagaanggt ctcaaactcc 480
 tgggcttaag aaaancttct ggcttgnct ctgaatagct gananccag gtttgtgcca 540
 catacctgnt taaaattcgt t 561

<210> 7000

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7000

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tccacctccc gggctcaaag taattctgcc tcagcctccc gagtagctgg gattacaggc 120
actgccacca caccagcta attttggtat ttttagtaga gacagggtgt tcacatggt 180
gccaggtg gtctcaaact cctgacctca ggcgatctgc ctgcctttgc ctcccaaagt 240
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gtaaaagatt ttcaatgaat caaggaaaga atcttaacta gttgtttgag ctgagtttnc 480
tatggactaa aaatgcatga aaactgctgg atcttaactg gttacagcag ttccttangg 540
nataatctgg gtgaccnc 558

<210> 7001

<211> 385

<212> DNA

<213> Homo sapiens

<400> 7001

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catggctact gggctcctgg ccttcctagg gctagcagct ggtgggcaaa cactctgccc 120
tgctggagag ctgccaggcc atgcccgggc acaggctagt ggggctcctg gctcagtcct 180
gatagcagng ccaggagggc gtaaagtga cacatgcggc cctgggcctg cggctcccan 240
cacacgtggg gagtgtcctc ccccagctgt aggccacact cgtccagcaa gaccaggcc 300
ggngctcctt cgccccaaact gttccccaga agcccggggg gcagggacat ggtgctgcnn 360
tcctnccagc gggcantntg ntcaa 385

<210> 7002

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7002

| | |
|--|-----|
| gagacggagt ctcgctccgt cgcccaggct ggagtgcagt ggcgtgatct cgcccactg | 60 |
| caagctccgc ctcccgggct nacgccattc tcccgcctca ncctcccag tagctgggac | 120 |
| tacaggcacc cgccaccacg cccggccaat tttttgcacc tccagcagag acggggtttc | 180 |
| accgttttag cgggatggg ctcgatctcc cgacctcatg atccgcccgc ctnggcctcc | 240 |
| caaagtgctg ggaccacagg cgtgagccac cgcgcccggc caaattagg gattcttacc | 300 |
| aggaagagaa agcagcacga ggagggctca caaagggaag tgaggctcac tagaacagcc | 360 |
| ccaggcataa attgcagggg aaacctgaaa tcaactgntc ctaacccaaa acaggcacgt | 420 |
| tcgtcaagca tgaaccagca gcaagaanct tctttggnat tcagtcncaa ggatctaatac | 480 |
| taaattcang gaccttggn ggtattgcc atgngnactg gtaaaatcta ggaaatcanc | 540 |
| ccttgctt | 548 |

<210> 7003

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7003

| | |
|---|-----|
| ggcagtcccc aagcagaata gaaaagtcac atcaccaaga taatgaatga aaagatgtat | 60 |
| tagagtattt ctgtgggagg gcccatgcag gaaagttgca tcaccatgtt gttggaccca | 120 |
| gagatatgtt gaaataaatg attccagcca ggtgtcgtgg cacctgccta taagctcagc | 180 |
| actgtgggag gctaagacag tcaaatcacc tgaggtcagg agtttgagaa cagcctgacc | 240 |
| aacatggaga agccccgtct ctatcaaaaa taaaaatta ggtgggagtg gtggtgcatg | 300 |
| cctgtaattc cagctactca ggaggctgag ccaagagaat tgcttgaacc tgagaggtgg | 360 |
| aggttgtggt gagctgacat ggtgccattg cactccaacc taggcaacaa gagcaaaact | 420 |
| ccatctcaaa gcaattaatt aattaattaa ttaaaagaaa tcatgatgca tgcagagctc | 480 |
| agcagganaa gagagtacag catgtaggtg atggaccccc taatgcccac tacaatttcc | 540 |
| ntagcacncc can | 553 |

<210> 7004

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7004

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gcttcacagt ggtttaatat gaacagagtt gaatatgaca ttgtctgaca gaagaatgaa   60
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gactctcagc acttgtgcac aatgaaagag gaaatcgttt ttaaaaaatg tctataacag  180
aggatacaaa tcaaaaaggc agcaacaaca acattggcga ggtgggaaag ggagcagagc  240
ctctcattag gggctgctta gcccctggcg caggctcagc agctggagag ctgtctcagg  300
gaacttcaac atttagatgg gtccaaatc ctatgtcaaa atacaatcct aatctctctg  360
atcagggtca gtcagaatca gcaatccttt tccacagtgc cctgcataga aaactccaat  420
ctttccatga tagggagtct aagcaaagag cccccacctt tcacctggca ccaaagttaa  480
cttactctta ccccaccact ttgggacaag acgtttggcc ccagcaacaa accaaccctt  540
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<210> 7005

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7005

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tagccgggat tacaggtgtg tgccaccacg cccagctaata ttttgtgttt ttagtagaga  180
cgggggtttcg ccatgttggc caggctggtc tcaaactcgt aacctcaagt gatccacca  240
cctcagcttc ccaaagtgtc gggatgacag acgtgagcca ccatgcctgg tcatgttttc  300

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tggttttttt taagacaggg tctcactctg ttgcccaggc aggagtgcag tgtcacagtc 360
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 agagtagctg ggaccaaagg tgtacgccac cacacctagc ttattaattt ttgtagggac 480
 aagggtctgg atctggtggc taagctgggc tttaaactcc ggcctaaac gatccttctt 540
 cccgggtttc ctggannggt ngggan 566

<210> 7006

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7006

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 gcaacctcca cctcccaggc aattctcctg tctcagcctc ccaagtagct gggattacag 120
 gcgtgtgcca ccacgccag ctaatctttt gtctttctag tanagacggg gtttcacat 180
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 gattcccacc tgggtctccc ctacttttc ctttaatctg ntcactctac ttctgttaga 480
 ggattctctg gtaaatacatt tctctctcat tcaanggggt tgccanagct ttncatttaa 540
 ctccttaagt taccatn 557

<210> 7007

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7007

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 ggggaccact gtctagagac ataggctaag gatgcctgga aaatgaaatc acagctgtgc 120
 ttcttgcaaa ttactctctt gagtacgtaa ttctgtctcc tcatctaact ggggcagctt 180
 ccaaggcaga agagacaagg cctctccaat ggaatgagta tttcctccag gtctcctcca 240
 tctccacaac tcagggtcagg gtttcaggac taagcagggtg tttgggctgt gctcagggcc 300
 aataagtagt ctctgtctgaa cacttgccaa gaagccagggt cagttctaac acccctctgc 360
 aggaatgacc agttcaatga aaaaaatcaa gcatgctgca atccatctaa tcacaaccag 420
 gcttcgtctc caccctgact tccccatgct tggcccttcc aaccaagtgt ctaattggga 480
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<210> 7008

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7008

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 ttactcactc tactattttc tacaaactcc ctcagtaact gaccaaagat cagccttatg 180
 ttcatgctat ttcanaaaga aatgaaaaac attcagagaa gtggagataa gaataatctt 240
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 acttatgcc a cctggngggc agcccagata acactaataa aacctaaaat tcatnggtta 360
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 aaagagttga ttataccagc ctcgctctca atactttttg ngacgtaacc aatttttagn 480
 ttttgggaaa aatntnttat caaagaaaac aatccaaang tttggcnctt tcnaaaaaat 540
 ttctttttac c 551

<210> 7009

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7009

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gagtttctcc ccttctagat aagtttttat cccaccagtg ttctgcttcc ccagtagaga 180
ctgtgttaag aaaagaggca aatttgcttt ctcagactgc acagagcatc tcattatattt 240
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<210> 7010

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7010

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cctgtgtttt ccagcaatgt cttgggtgtg ttgggtcggn taatgatttc caccaagttg 480
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<210> 7011

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7011

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<210> 7012

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7012

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 gccctgtatg ggctgggctg agctcagaaa ggaagccttt ctttcctttt tttttttttt 240
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<210> 7013

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7013

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<210> 7014

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7014

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<210> 7015

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7015

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ttgaagtaaa gtttcttgtg ggggtggcaag tcatctgcag aagccaatgn ctaaagcat 540

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gaatgtntgc cnaaaanaag gc

562

<210> 7016

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7016

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gtctggcttt gatccagatg gctggtacac ctggacacat atgtctttga cttcctctgt  480
aagtgaacc ccagggggtg aaaacaggac tttcaacacc taatcctgna ataattttaa  540
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<210> 7017

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7017

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aagtaaaaac agggctctac tttgtctctc gggatgggtct taaactcctg actacaagca   60
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aaatttcttg tctttttgta aaactcaatt gaaagtattc catcttgaca ttctgacagt  180
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tcctttgaag gaagaggggt acagcaggcc aagatgctcg gcagcctttc ctttccagtc 300
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 catcaagcca caatgaagat acagaatatt ctcatcatgc ccagaaagtt cccttgtacc 480
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<210> 7018

<211> 244

<212> DNA

<213> Homo sapiens

<400> 7018

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 acaagcacct gccaccacac ccggctaatt tttttgtatt tttaatagag atggggtttg 180
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 naaa 244

<210> 7019

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7019

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ttatgagttg tcaatctcct tagcaataat atgtcacaaat tttgtctgct gcaacagaag 480
aaaaacaagc tgnacacaca atacaaaatg ccttaatttc tgganggccccc aaaagggcct 540
tcaatgncnc tggaattaag gcnttggca 569

<210> 7020

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7020

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<210> 7021

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7021

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tccaacttcc aagagaaatc aaagaatcct tcnttancca ccctgaggca ccatnnggc 480
ccttcttaag gaaactcctt ttttgccttg ggctcaagca agncctttgg nccggggtac 540
ctttaaacc ctntagctnt aanagtan 568

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<210> 7022

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7022

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tacaggcacc caccaccaca ccagctaatt tttttgtatt tttagtagag acatagtttc 180
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gtcactgnaa ccttcactct cangttgaag taattgcct gcttaagcca cccaagtagc 480
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<210> 7023

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7023

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catttgctgg gctaaaaaat taattacagg ccctnaacag caaaatgcat tggacagang 480
aaagaagtca gtgagcctta aagagaaact tttnaatntc ncaggtngag gccaaaggaag 540
aaaaangaaa ggaacccgnt c 561
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<210> 7024

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7024

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gggttatggg cacatgacat cacgctcggc tttttttttt ttttttttag atggagtctc 360
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gctgttgnc aggctggaat gcaatgggta cgatcttggc tcaactgcaac ctccaccttt 420
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<210> 7025

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7025

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<210> 7026

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7026

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 gaactcttgg nctcagctga caattttttt ttttgagaca gaggttcactc ttgtgcntan 480
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<210> 7027

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7027

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<210> 7028

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7028

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<210> 7029

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7029

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<210> 7030

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7030

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<210> 7031

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7031

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<210> 7032

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7032

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 ttttattcta caaatgaaat gaataaaatc acctgaaatg gaacggaatg gctacagcga 180
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 aacccaatcc tgtccaaaca gcttctcang gngcatgttt ttgaaagggg caaaanatan 480
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<210> 7033

<211> 488

<212> DNA

<213> Homo sapiens

<400> 7033

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gagatggagt ctcactctgt caccaggct gaagtgcagt ggtgcgatct tggctcactg 60
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tacaagcgcg cactaccaca cccaactaat ttttgtatct ttagtaaaga cagagtttca 180
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ggagccagga ttggtttcag ttgcttgga ctgagaagcc tgactgacag tgggtgactat 360
gacttgcatt agaaataaaa gatcactgac tctaaaagca atgccattaa tcaggaggat 420
ttttctcagt gcacacnggc cgtagtgna aatggatnan taaatncntg agnttcaaaa 480
aattagct 488

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<210> 7034

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7034

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gagacagagt ctagctctgt cgcccaggct ggagtgcagt ggcgcaatct cggctcactg 60
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tacaggcgcc cgccaccaca cccggctaatt ttttgtatt ttttagtagag aggggggttt 180
caccgtgttc gccaggatgg tctcgatctc ctgaccttgt gatccacctg cctcggcctc 240
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gtgcaagtgc tagntactcc acattcttnc acatnacttt ggtcaaggtc aagtttttct 480
atttttagctg angngngngg gggcttacta atgggttttt tgggttgggt ttttggaag 540
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```

<210> 7035

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7035

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gcagaggaga cggggttaata acagaagcaa tgaagactcc tggatgtacc caaggacacc  120
ctatggccag cagcttggtt tctcccagaa tcagtttaca gacttgctca gcctgcggga  180
gggcccaggg atcatgcagg aagaaaacgg aatacgcttg attctggaat tggtcatttt  240
aagacacttt tagtaagatg gtttcatgtc tacacccaag tcttgccaac caagaagcat  300
caacgtgaac agctcagaga cattcctgca caggagagca gggaggaggc agtggaagg  360
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cccgaccac aggggttcac ttacaggtn cccaccttgc agcaacagtg angctcaaag  480
tcaccacac ttcatatn ccttttgtca taccctgcct gnatgggnt tcgntacct  540
acaaagccca caaaggggca acg                                           563

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<210> 7036

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7036

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aatatctatt atcatccttt atttgatca aaacaaatca attttttaa aaatcttagg   60
tttttttaag aagcagaaat aatttcaaaa ttgcctccag agacaatgat ttatcctct  120
gcagaagctg gtcagaacct tcttgatcac agccccagtt agatacaggg aagagtggcg  180
cttcctacag cttcagcggc ctacagtcag ctctgtgccc caaggccaaa ccagctcatc  240
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ccccttggtc agaaggaacc atatgaccag ctttcagaat ccagtagaaa gcaaggttct  360
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ttcagctgac tgaatttaag gcagtctggn ccttcagttt cgnacccagg cttctgaccc 480
atggnatcta cgaatgagatc cagtgnccctt ntacacggna cgtggatcct ggctcagaac 540
ttgtccn 547

<210> 7037

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7037

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cctgcccgcc gccccccact ccagaagggt caatttacia agacaggggc gcagggggaga 120
gctgggtggg gaagacacag ccaggccagg aggcttctgc aggccttggg cttccctgag 180
ggcctcgcgg cttctggtgg ctgctatagt ggccccacag gaggccagca ctgtgggtca 240
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cccctgcagc agggacagga ggaccaagac gccgacgggc actcctttcc ttaaggcttc 360
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ctggctcatc ccttgtaggt cctgccggct ggggcctggg gtcttccatg ggctntnggn 480
tggttggcc ccttgaaggc ctggccggcc ggggcctggg gtttccanag ggtnttnggt 540
gggttggccc ttnaggc 557

<210> 7038

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7038

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agcctggatc tccaggctca agcaatcctc ctgcctcagc aacccccaccg cccccacca 120

ccgggtagct cggactacag gcatgacta ccacacccaa ccaacttttt tatttttaat 180
 agagatgagg tcttgccatg ccgcccaggc tagtctcaaa cttccgaggt caagcaatcc 240
 tcccgcctca gcctcccaaa gtgctaggat tacagggtgtg aaccaccata cccagcctaa 300
 gtacaatttt ctattgttgc cattcttttt cgttttgaga tggagtctca ctctgttgcc 360
 caggctggag tgcagtggca caaccttggc ccactgcaag ctctgcctcc tgggttcaca 420
 ccattctcct gcctcagctn ctgagcagct gggactacag gcgcccggca cacgcccggg 480
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<210> 7039

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7039

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 acgttttgcc cctcttatga cccanatgtt cggagtgttg ggaatgctac acaagacaga 180
 caagctccca atgntaaaga actcacattt attttcatta atattactgg taatgnccaa 240
 ctttttgacc attcataggc ttttctctta gattaattat tcagaaatat tagcactaat 300
 ctgaatcacc ttatgtgctt gntaaagcac agattgntgg gcccancce gagtcttttg 360
 ttcantggat ctaggggtgga agctgagaat ctgnctttct aatttccta gtgatgctaa 420
 tgctgctgtt ctagggacca aacgctggct taagncattg ccaaattgca ttccttcagt 480
 gtaatgacac ttttctttca nggggtnaaa aaaaanttaa aattantaat taataattaa 540
 ncng 544

<210> 7040

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7040

| | |
|---|-----|
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| caacctccac ctcccgggtt tgagcaattc tcctgcctca acctcccaag taactgggat | 120 |
| tataggcata catcaccatg cccggctaac ttttgtatit ttagtagaga tggggtttca | 180 |
| ccatgttggc caggctggc tcgatctctg aactcgtgat ctgcccgcct cggcctccca | 240 |
| aggtgctggg gttacaggag tgagccaccg cactggcca cttcctatat ttcttttgca | 300 |
| aaaatgaaca gatacacatg tattttccta tgtctttctt ttacatgaa agggagtata | 360 |
| tcgtaaattt tttttgcact cagcttgctt caaaatattc tagaaatcac tccatatcag | 420 |
| ttattatctt cagttttaca gatgaagaga caggcataaa gaggttaagt aactagctca | 480 |
| aggcctgnat ctattaagga gtatngctgg gatgtgnaac taanaagttt ggcttcagaa | 540 |
| tccatgggcc tttttntaca tana | 564 |

<210> 7041

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7041

| | |
|--|-----|
| gagactgggt tctgctctat tgcccagtag cgcgatcatg gctctcactg caacaacctc | 60 |
| ccaggctcaa gtgacctcc cacctcagcc acctcccacc ttagcctccc aagtagctag | 120 |
| gactacaggc atacaccacc acgcccagct aatttttgtt agagatgggt tctccttatg | 180 |
| ttgcccaggg tggctcctaaa ctcttgggct caagtgatec tccagcttcg gactcccaaa | 240 |
| gtgctgggat tacaggcgtg agccactgtg cccagcgcgc attgttcttt taacaaaaga | 300 |
| ttcgctggc cctgtctttg gctgggctcc gcagagatag cgcaggccta gtggacaagg | 360 |
| cctctgtctg aaccgggcct atactgtagt gggacggaaa gacaccaaac aatttgcttt | 420 |
| cacggggaag aaagtggggt gccaaaaata atgtgggaaa angcctttgc atacagggtc | 480 |
| agaaacgggc tcccaaagag atgacatttc acangattct ggctgaaaaa aaccttgggg | 540 |
| caaaagaaag ggcttaaccn nggggntn | 568 |

<210> 7042

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7042

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gagacagagt ctcgctctgt tgcccaggct ggctccatct ctgctcactg caagctccgc   60
ctcccgggtt cagccattc tcctgcctca gcctcctgag cagctgggac tacaggcacc  120
cgccaccaca cccagctaatt tttttgtatt tttagtagag acgaggtttc accatgttag  180
ccaggatggt ctccatcacc tgacctcgtg atccgcccgc ctcagccccc caaagtgctg  240
ggattacagg cgtgagccac cagcctggc cgagccatca gtatttttaa aaatcttcac  300
gtgattccaa tatacggnaa aatttaagag actacagcaa taatataagc aagagatgat  360
gatggattgg cccaagattg ttagtgatag agatggtaag aagtggtag attctcgata  420
taccttgaag atgtcaaacc acagcaaatt tactactgna aaaattatnn gaacactgaa  480
attattaatg ngatattttgg aacattnaca caccatattt naaatatctt ggatcaattc  540
ttactgaggc atgggaaata atc                                           563
    
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<210> 7043

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7043

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gagacagagt ctcactctgt cacctaggct gaagggccat gaggcaatct tggctactgc   60
aacctctgcc tcctgggttc aagtgattct cctgcctcag cctcctgagt agctgggact  120
ataggcatgc agcaccacgc ctgggtagtt tatgtatttt caggagagat ggggtttcac  180
catgttggcc aggctgggtct caaactcctc acctcagggtg atccactggc cttggcctcc  240
caaagtgctg ggattccagg tgtgagccac tgcgccagc ccagacctcc aatttctatc  300
    
```

ctcccaggga ctccaggccc agcctggatc tcagagaaga atcctgattg tggcagaggc 360
 tgttacttct cccttagaat ccatectccc tgtttcgttc ttggtaacca aaccctaag 420
 agtatgagca ctgcacatgg ccaccagcc agagactaca tttcccagac tctcttgac 480
 tagagatggn tatgtgacca tgctccgggc caatgggata taacngaaat gctctgnacc 540
 atcnttgggt gacncctttc caaanagtgg t 571

<210> 7044

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7044

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 tttgggaggc tgaggtgggt ggatcacctg aggccagcag ttcgagacag cctggccaac 180
 atggtgagac cccatctcta ctaaaaatac aaaaattagc caggcatggt ggcacacacc 240
 tgtagtccca gctacttggc aggctgaggc aggagaatca cctgaacca ggaggcagaa 300
 gttacagtga gccaaagattg taccactgca ctccagtctg ggcaagagag tgagaattca 360
 tctcaaaaaa aaaaaaaaaa aaaagagaga gaaaatgaac agtaattctt ttcattgtaat 420
 atctagtcca tattcaaatt ggaatgattt cttttttttt tttttttttt gaaaccaggt 480
 cttnttttta ccaggctgg agtcagtgc accactgngg cttactgnaa cttttacctc 540
 tgggnccaag cagncttcan aataaac 567

<210> 7045

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7045

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 gattagacaa tatttaacac tatcttattg tgatgtacca ataaacaaaa caaaacaaaa 180
 aaccacatt gaaacaaatc agaaaaaatt aaagcatgaa caaatTTTat atagtatata 240
 ataagaataa aagtcccaca acttaaggct ctaattataa caatgaaata gatccaaagt 300
 tcttgaatca cttttttcaa ttttgaagat gactgttgta aatatatctc tttttaaagt 360
 ttcattccaca aggtttatta atcaagtaaa atgtacattt ttaaaccat tcctgggtaa 420
 acaaatattt atttgcaagc ttttctaat tggactcctc angcacatct aatattgcaa 480
 catatgcagg ttaggaaaat atacacataa tcctaaacaa tctttactta taaatttgaa 540
 tgcntattct aatctacca gagnaagatt 570

<210> 7046

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7046

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 gtttgagtga gtgcctggag tgggcggtgg atgaggggaa ttatggaagg gagaggggtt 120
 cctcaagtct gttatttttt aagagacggg gtctcgtctg gttgccagg ctggtcttga 180
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 gggaccact ggctaaaata aaatacattt ttaagaagg caactctcag tgagtgggtg 360
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 tgcttggtgc cccaccaatt taaacacatt aaatttgga tggaagttct gnccttgat 540
 gaggctttat ctatggngac atnctggtct n 571

<210> 7047

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7047

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cttttctttt ttttttggat aggcttttgt tctgttgccc aggctagagt gcagtggcat   60
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ctgagtagct gtgaatacag gcacgtgtca ccatgctcgt ttttaaaatt tttggtaggc  180
atgaggtctc tctgtgttgt ccaggctggt accaatctca tgggctcaag cgatcctcct  240
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atgttactaa tatgacgaac tgaaattatg gatccctaag tttagtagaa taaaatttca  360
gatttcataa aaagactaac ataaaagata ttgatcattc ttttaggcct cctaagtaag  420
atttaagcaa agcataaatt tctgggatat tctcagttca aacacacact nttactgatg  480
tcctgctaag ctttctgatg acaattcctt tatgctttac atcttggaga accaatnang  540
nttacntntt ntacattaac g                                           561

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<210> 7048

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7048

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agacagttat aataacaaag gatttattat catttgcaga tgaaataaat gtaccatccc   60
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gcctagttat attatgcacc catttctaga gtaaaaaaac tacacctccc tcaacatcag  180
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caaacactgt ggtccattca gagtactgct tagtcatcat cttcttcttc ctctcttct  300
tcctcaaagc tatcttcaaa gccctcactg tcctcctggt cttcatcccc ctctattgct  360
gtatcccact gtgggtgatt ttctggcaca ggcttagcct catgaacttc caacttcaat  420

```

ggtttaatct gatccaaacc catataggag tctgatctca gaaacacagt atactgataa 480
 tttccaggct tgcctgggtgc aggaaacttc aacttntacc tcaggaaagt aaaggctntn 540
 cccaggatgg gtaattttgg atttgggtt 569

<210> 7049

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7049

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 gatgtggcat tctacataaa ctacaggatc aggcttttct gggacagtgg gtctgctgga 180
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 tcaaagcaaa atatgaactt ataggaaagg agggccctgg actggcagga agagagagac 480
 tcgtggcaat tctagagatg gcagtgccca accatcaagt tctaaagaga ccatttggga 540
 gtgactntgc cttanccngg gtg 563

<210> 7050

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7050

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gtagccagtg atttgcgctc agaggaggta ataggacaaa aaaaaaaaaa aaaaaaaagc 180
 cgtatgtgca aaaggaagag cttcaaagaa gtccgtaggg aaggagtgac tgcgacgcag 240
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 gaagatggga gttgggtgga ctcaagaact cagggctgat gtttgagtcc atgctctttc 360
 aatgatagac acacatacct gaaagcagcc aatctccatt aaaaatgtgt gttcttttcc 420
 tcaaaggaga tacaatagac atcagaaaga tatgattatt tcagctacca aagtgtcttg 480
 atatccatct cttcaaagat ccatatggga tgggatcaan gngtcncct gagaaaagtc 540
 ctaagtntta agcncagntt ttatta 566

<210> 7051

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7051

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 ttgccagcct gtgtctttta attgggtcat ttagccctt tacatttaag gttaatattg 180
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 ggtgacagaa tctctcagca tttgcttate tgtaaagggt tttatttctc cttcacttat 420
 gaagcttatt taggctagat atgaaattct ggggtgaaaa ttctttaaga atgttgaata 480
 ttggcccaa ctctattcta gctttaggg tgctgcagaa agatccnctg gtaagctgaa 540
 gggccttccn ttggggggaa cc 562

<210> 7052

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7052

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ganacagagt cttgctntgt catntaggct ggagtgcagn ggcgtgatat aggctcactg   60
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tacaggngtg ngccaccatg tccagccaat tttttgtatt tttagtanan atggggtttc   180
accatgctgg ccaggctggg ctcgaaactc tgacctcgng atccgccctc ctnagcctcc   240
caaagngttg ggattacagg catgagccac tgcgcctggc catcaaaacg tatntntntt   300
cactccagga agttctcctt tctagttaat gaatgtctna cctgaccacc tgaggcaaac   360
agngttttca ttnttaccac cacagatcac tttttgcctt ttcttgaact tcacataaat   420
ggaatcattc aagtaagtac ttgntnatat gcatattttn gggtcattca tggtttgctt   480
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<210> 7053

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7053

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gagatggagt ttcactcttg ttgcccaggc aggaatgcaa tggcatgac taggctcact   60
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tcacgggtgc ccataccat gtctggctac ttttttgtat ttttagtaga gacaggtttc   180
accaagttag ccaggctggg cttcaactcc tgacctcagg tgatctgccc acctcacctc   240
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aggaatcaca tacacaccta taattagagg catttatatt attttagtgt cattatatgt   480
gcatttgctt tatttttaat tngattacat ggangtactg gtggtctttt aacatgaagg   540
gaaancctgg ggcaancatt tgttcn                                     566

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<210> 7054

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7054

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gagatgggag tctcgctatg ttgcccatgc tggagtgcag tggcgtgac tcagctcact   60
gcaacctctg cctcccaggt taaagcgatt ctctgcctg agccccccag cctcctgagt  120
agctgggatt acaggcgcct gccaccacgt ctggctaatt tttgtatfff ttagtagaga  180
cggggtttta ccgtgttgtc aaggctggtc tcaaattcct gacctcaggt gatctatctg  240
cttcgcccc ccaaagtgct gggattacag gtgtgagcca ccgcatccag ccaagaatgg  300
cctctttaat gtctgtgagc tcccaaggg cagagacacc ctctagtgcc tggcaccgcc  360
tccagggtctg aggagggtgct caccaagtct gtgatgcagg aatgaagccg tatcccaagt  420
agggggctgc gtctgcccag tttaccagtg cgttcttgtc acccagcacg ggctggccag  480
cgagtatcga cacanggttt gctgancgga ngaatgaacc ctgctttgtg gtggaaggga  540
acaagtggca aggaaaaccg gaccctt                                     568
    
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<210> 7055

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7055

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gtagctgaga ctacagggtc acgccacat gcccgctaa tttttgtatt tttatagaga  180
tagggtttca ccacgttggc cagactggtc tccaactcct gacctcgtga tccacctgcc  240
ttggcctctc aaagtgctgg gattataggc gtgagacaac gcacctggcc tttagtttat  300
    
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attttatttg gatactacaa atgttgaata tcttgtgttt actggttatt tgtatgtttt 360
 ctttacgaat tgcttttcag gattttggcc tatttagtga tattatttaa atatttctta 420
 agtggatctg taagcactct acatattaag gctataacac agtatagcac tctgggatta 480
 tctaacctct acagttgaga tattagacat aaaggggctg ctgggganta gaaatttttt 540
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<210> 7056

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7056

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 agcctgctgc tgacctttaa atggggtttt tgtggggtct ttttcattga tgttgttggt 180
 gctcttgctt tctatttgtc ttttcacagt caggctccctc ttctgtaggg ctgctgccat 240
 ttgctgggga tctactccag acgctatttc cctgggtcct tcccactcct ggaattatca 300
 ccagtggacg ctgccgaaca acaaagatgg cagcctgctc cticctctgg gagctctgac 360
 ccagaggggc accaacctga tgccagctgg aacactcctg tatgaagtgt ctggcgaact 420
 ctattgggac atctcatttc agtcaggang aacnggatca nggtcttgct taaaanaacc 480
 agtcttggct tgccccttgg caaaacaagg tgtgctacan tangggggaa tcccctaatt 540
 ccnggcttgc cctgn 555

<210> 7057

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7057

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 aatcttcacc tccgggttca agcaattctc ctgactccgc ctcccagtg ggattacagg 120
 caccaccac catgcctggc tatttttgta gttttagtag agactgggtt tcaccatatt 180
 catcaggctg gtctcaaact cctgacctca ggtgattcat ccgcctctgc cagaatttct 240
 ctttaaattc aacaagattc agttttacag tctggaaaaa aaatgtcctc tctatatgaa 300
 caatcaatct tcaccattga tatttttcat ctttgacttg aagttacaaa ctaacttcag 360
 caggaatatt tatgaattat tatggataat ctattacaca gtgaaaactg taatatatgt 420
 ttgctacatt tatatataaa aacatcctca tgactaatga agcctnccta gtcttaactg 480
 aacaaantgg actcaataaa tatgcttatg gcaattataa aaaggggaan ggaccaaadc 540
 actaaagaaa acctttntnt tgn 564

<210> 7058

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7058

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 agttgtaggt agggactatg ttttctacc cttaggacct aacagagcca aacaagagt 180
 cagagaagat gctcagattt tctgataatg atactaatgc ttcagtctta caccctcacc 240
 tcttctcagg cactcctgag ctttgtaag tcattctatt tgttttcatg ccagttgggt 300
 aaaggctttc gtttctatit agaggtgaaa ctagagctac agagatgac attagccaac 360
 catgaagaga attctagttt cctatgtgct attactagt ctgcgtccaa gtataaagaa 420
 ggtgcttatg cttggcgtgg aataaaataa gttgccagt ctgatccctt tctctcctcc 480
 tcttcttcat atcttggctt gggccttacc tggcagcttn cctcttttcg gttggattga 540
 acnggcctgg gcagctttga accg 564

<210> 7059

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7059

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ggacagtaaa tggtttttat tattttatct cctttctcct tctctattag cttggttagct 60
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aaagaattat gtcctgcaga aaacattctg agtgactatt tttttttca gttcttatac 180
ggcattctaa atgtaaagaa gttaattcat aatatataat agatgcctta gcacagatgt 240
cttagttctg gctgctacta acaaaaatac catagaccgg gtggctcaca caacaaacat 300
ttctcatagt tctagaggct gggttctata gaccctccaa gaccagggtt ccatcatggt 360
caagttctgg tgaagaccct cttcctggct tgcagatggc attcttcttg ctgggccccca 420
tatggcagag aagtagacag aaagaacang aactctgggg ctctaattccc attgngaggg 480
ttcaccttna cgaactaaat ccttccaaaa ggncccaactt ctaacaccat naccttggan 540
ggtagaattc acnntccaat ct 562

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<210> 7060

<211> 415

<212> DNA

<213> Homo sapiens

<400> 7060

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ganacgagtc tcgctntgnc accaggctga agngcagggg ngcaatctcg gctcaccgca 60
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ccaagtagct gggactacag gcacgcaaca ccatgcccgg ctaatttttg gatttttagc 180
ananacgggg tttcaccatg ttggccagga tggncctgat ctcctgacct tggganctgc 240
ccgcctnggc ctcccaaagn gctgggatta caggngtgag ccaccacgcc cggccccacca 300
cgataatttt ttttttgtan anacnagggt ctcaccatgt tgcccaaaat gggctcgaac 360
tcctgagctn aagcaatttn ccggcttggg ctnccaaagg gtggaactcc cggtt 415

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<210> 7061

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7061

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cctaaaaaag gcttatatTT acttgatttg aattttgcta gcatgctttt tcttctgaat 60
tcaagtgact agaactgaaa ttattccacc tggggagaag agacagctga aagccaattt 120
agtattggtt ttcaaataca tgaagggtac tcagagagag gatgattgcc aaagaaaatg 180
gtctttgaac catagaaaga atctgagctt gctctaaagt taaatttcct gacttacaga 240
gtttatgaca ttaaactgag agaccaaggg atcctttttg gagacttcaa aaataggata 300
gatccttaaa tgcctgagat ggcttgatg tggctttgtc tgaagtcagg aggataaatc 360
ttaccactga tggctccctt aggcgtgtga atctatgggt ttgactggca tgtcagaagc 420
tagaatgcca gcccaggaca tctagagagc atctctncat gctgggtagc agtctatcaa 480
tcgctctact ggctnacatc tntcaacttg gcttcaccac atagggancc caggcctgnt 540
ccggctgang ctgatt 556
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<210> 7062

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7062

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ctttttttga gacagtctca ctctgtcacc caggctagag tgcagtgggt caatctcggc 60
tcaactgccag ctccgcctcc caggttcacg ccattctcct gcctcagtct cccaagcagc 120
cgggaccaca ggcgccccgc accatgcccc gccaatTTTT tgtattttta gtagagacgg 180
ggattcaccg tgctagccag gatggtctcg atctcctgac ctctgtatcc gcccgccctcg 240
gcctcccaaa gtgctgggat tacaggcgtg agccaccgcg cccagccgcc agaagatatt 300
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tttaacatgc caagaagaca aaggttaaat atccagaata tttcaaagat gtcctatacg 360
 cactacaaaa cactgctgaa gagagcttgg tgcatttgaa gaacaacaaa gtgtttgttg 420
 tggttgtagc aaaaatgggg tgtgtgtgtg nggtgtgtgtg tgtgtgtgtg tgtgngtggg 480
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<210> 7063

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7063

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 cacaggtgca caccaccaca cccacaatt tttttaaaac tttttgtaga catagggctc 180
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 cccaagggtgc tgggattaca ggtgtacgca cctggcctta catatattac cttaatggaa 300
 gattttaaat aaggtagtat ttctctatag cagtgggtctt acctgggggt tacttttgtc 360
 tccttttccc taaccaggag acacttgaca atgtctgcag acatttttgg ttgtgggaat 420
 gnggnnttgg gtggtgggggt actacttgca tgtaggggta aaangccagg gatgctctna 480
 acatcttaca atgcccangg acagcttcca caacaacaa tttccagccc caacaccaca 540
 ggctgaggtg gga 553

<210> 7064

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7064

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caacctctgc ctcccggtt caagagattc tctgcctca gcctccagag tagctgggat 120
 tacaagcgtg caccaccata cctggctaatt ttttgtatit tcagtagaga tggggtttcg 180
 ccatgttgac cagcctggtc ttgaactcct gaccttaagg gattcaccg ccttggcctc 240
 ccaaagtgtt aggattacat gcgtgagcca ccaccctcgg cctgcttctt agcacttcta 300
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 ggcaccagge tggggctctc cctaggcagc tccaagtggc taggatctgg ctctttttcc 420
 agagctgggt ccagaaacca agatcgggaa tgcctgatgg ctgctctgcg gcccttgcta 480
 tgaaggcact ttccttggtt caggngatcg gcccttggct ttaaggaaca tgtnggggtca 540
 nccnngggtt gggncacn 559

<210> 7065

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7065

aaagatatgg ctatggataa tggtcgtaga tatcttaca tctaggatta ttttgaaaac 60
 tttttctga gttattcatt gtaagactct cccaatcca aggtgaagg atacttggac 120
 acaacacaat gccagttcaa gttcaaggga agtgttccat cctctttcag cctccactca 180
 gctccagaca cacggtgcat ggtccagctc cctgggattt tccattcgg aaaggaagc 240
 cgtttgctga gccagcctct gtgaccactc atgatctgaa ttaccacag gtgttcgaaa 300
 atacagaggg atccagcata attaagagca ttaagcaatc atctcagccc aaggaggcag 360
 ttgaagaaaa gaacagagtt tgggcaacac ttggggaaat aaattccaca gcctttcacc 420
 aagttgaaat cttggctttg gacacacata aaaatgacct ggnccaatct taactnttna 480
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<210> 7066

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7066

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ctctggggca ggggtgcccc gggagggttc ctcttgtgga acgcaggcgt taatgagcca 180
tttcagtaat aagagtcctg ccttgagcca gaagtcagag cacccaagac accccaagca 240
gcagaaatgc tcatgaattt ctgaaactgc ctttctaatt tgcatttaaa cataacttcc 300
aaagaacaat ttcacctgtg attttctgag ctggaaaggt aagggaactt agatgttgaa 360
tatgtacaaa ttatgttaat ataacggagg taaatgaaag tcaaatgcat tggcatgtaa 420
aatgtanacg tcttttctaa atggctatit tctacccang ctttggttaa ttttccccta 480
aagtggaaat gngataattt ttttttaa naagggaatc tctataataa atnccaattg 540
gatggaactg ggtattncnc aat 563
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<210> 7067

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7067

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aacctcggcc tcccagggtc aagggaattct cctgcctcag cctcatagtt cctccccgtc 120
tgcaaccacc ggtcttcacc ggattcacag tcggaaccgc gagcaaagac acctagtaga 180
gccggccgat tcctaggtcc tccggctagg aggcgctgcg ggccagtcct cggggggcca 240
ccgcagcccc cgcgcccagc acccccaccc tcacggcaga gcccagccca gccccgcggc 300
ggagctccga gttctgcgcc gtccgccggg gttactcccc gtcattccac tgcaccaact 360
cggcccagct tccccatctg cggccaggca naactgcccc gagagaccag cagcaacgnn 420
tggaanatgg gcttgcaggg aacgttggga aaagggaagg attgggcacc cancttccgg 480
ntttccggaa gcttttctaa n 501
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<210> 7068

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7068

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gagacggagt cttgctttgt cgcccaggct ggagtgcagt agtgtgatct cggctcactg   60
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tacaggcgcc cgccaccacg cccagctaata ttgttttttt tgtattttta ggagcgacag  180
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gcctcccaaa gtgctgggat tacaggcgtg agccactgcg ccaagagcaa gcttctgatg  300
taggggctgc ggggggcttc ccaggccagg caggttgctg tctcagcgcc agcgtgtagc  360
ctcctcccag gatccggagc aggagggtgg ctgncctttg cgttcaatcc gctgggctgc  420
tgtggggctc ccgcaaaact gnttcaangg gncnagaaga aggaaggacc cttgccccaa  480
ggacagacgg cnancttga tcaggaaagg ccaaccngg ccaaaggctt ggactctggt  540
tgggggaacn ncca                                     554

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<210> 7069

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7069

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aaatttagag acagggtctt gctctgtcac ccaggctgga gtgcagtggc gtgatcatag   60
ctcactgcag cctcgaattc ctgggctcaa gccatcctct agcctgggcc tcttgaaatg  120
ttaggatcac aggcgtgagc caaggcacag actctgggtt taaggcagaa gcacttgta  180
catgaatcac atcacataaa gcaatctttt ggtcagggtg ccaggcgagg agaggcccaa  240
gaaacaggaa aaggagagca agtgagagtg aatcggcgaa gccatcacct aatgaaggag  300

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ccagacaccc tgagtgtgga gccccagcca tgggtcctgc cccttgcgcc gctcagggca 360
aatcttcttg ctgcctgggc cacagcagtt actggggggc ttggcagggt gaantgtgtg 420
tcaccagacc tgcacaagct tcttcttaca gatacaacgc tgactcantg tgaaggccct 480
taaggctnta naaaaacccc aaccaaggga ggggcnnnaa cccccaanaa g 531

<210> 7070

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7070

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aaaggcacag ccatggaaat agaagattaa aatgaaaaaa aaaaaaaaag aaaaaagaaa 120
aagagaaaac ccacacaaaa aaaatgaaac taagagattc tgaaagcagc atttcctaata 180
taagaaggcc caagaagggtg acagatgtac ccagggtccc acaaccagcc agtggcagaa 240
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ttgcaaggag gagttaacgc caattcttat tcaaaattaa attctattag atattaagga 360
tttctggtgg gaatacttca gaaatgaaa agtatatttca atttaaatta aattaaattt 420
ccaattaagt cacagagaac tgnacttnaa canggaatct cttttactnt anccctttac 480
caaaggaaat atttcacttt ttttctttct gggcatcaat taagaagttt aatgtaaaat 540
ggggcacttt tcattcttga tnaa 564

<210> 7071

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7071

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tcgactcact cactgcaagc tccgcctccc aggttcatgc cattcttctg cctcaacctc 120
 ccgagtagct gggactacag gcgcccacca ccacaccogg ctaattttct gtatttttag 180
 tagagacggg gtttcaccgt gttagccagg atggtctcga tctcctgacc tcgtgatccg 240
 tccgcctcgg cctcccaaag tgctgggatt acaggcatga gccattgcac ccggcctaaa 300
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 acaggtagct ggngactcta agtaggacca gaacagaagc ctcaatgngc tggcccaant 480
 tgacatntat gcctganegn aaggctttgg ggcttgaaaa tcttcccatt agaaaatcan 540
 ggnggtattt tattcattat tcccatggc 569

<210> 7072

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7072

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 caggcgcgcg ccaccacacc cagctaattt ctataccttt agaaatgggg tttcaccatg 180
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 ctttcaatgc ttgcagatga gaaaatctgc tgncaatggt tttttttttt tctcctttgg 420
 caaagggtta atttattctg ggggaggccc ttgagaattt atctggggat ttcaagaatg 480
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 aaactttact gggcaaacn 559

<210> 7073

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7073

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acaactgtta tcttctttaa gaaatgatgg gaggcctttt ttccaggtat catagtcaat 180
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tgtcacatct tgagtgtgca tgatcataga ctccatggag cacatttaca actgggaaca 300
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tacattctac ttttaattta cacttcagac ttctaggagt cttgcatctg ttttccagca 420
gccacaaaag acattctcta attacttctg aatgaaaaac agagactttt aatttcntgc 480
aaagacatgc atgcactaca tacactttaa gaccctgggg tggctcaatt tctggnaaaa 540
ctggactttt cctn 554

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<210> 7074

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7074

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cacagctcac tgcagtctca aactcctggg ctcaagcgat catcctgttt cagcttctg 120
ggtagctgga accacaggta cgcaccacca cacctggcgg ggTTTTgtt tttgtagaga 180
tggggtctca ctacgttgcc tagggtggc tctgatcttt caagtgtca gtagctgcaa 240
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aaattgacaa gtctgaggat gtgctgctgc cttgagaagg gggTgtctc tctcaagaaa 360
gtcagatggc agagccagca taagttgtca aggcagaggg ccacaatcct ggtgacctn 420
tcaagtgggg ggctgcctgn ctgnggttct gagnccccac tangggatcc ccattncctt 480

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gggttgaccc gttttttgcc ttttttaaac cggggtcctt ggcntgncct

530

<210> 7075

<211> 254

<212> DNA

<213> Homo sapiens

<400> 7075

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cattcatggg gtacaatgtg gaatgaggaa atcccactac ttagcatctc cactacctca 120
gagagaccaa ttccacgtga ggtcccagaa gtgttgatct aaacaagttg accccataga 180
agtagcaagt agatcgatgg tgaccagggg tcagagagtg gcagagggag gggaatggga 240
gggggggnngn nnnn 254

<210> 7076

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7076

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caacctccac cttccaggct caagngatcc tcttgccna gcctccanag aagctgggac 120
tacaggtaca cgccaccata ccagctaatt tttttgnaat ttttganag gcggggtttt 180
gccatgttgc ccaggctggt cttgaactgc tgagctcaag caatccaccc cccttggcct 240
cccaaagngt tgggattata ggcatgagcc atggcaccca gcctatttng catacttctt 300
tactgattca ttaagtcgca gtctaattag cattacagat tatgagtaat aactttatta 360
tctaggnctc tactngntag cacctcctct gntacattgg tacttnccta agggcattct 420
tctntgacca ccccatntaa gctggaactc cttgctggng gatcctaggc ctatacccta 480
aatcagatt ttttacataa ncnggttttt aagggaaggg gntggaaacn ant 533

<210> 7077

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7077

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aaactgagac agggctctcac tctgtcactc aggctgcagt acagtggcat gatctcagct   60
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gggacttcgg ggcatgccac cacgcttggc taatTTTTTg tatttttggg ggagatggag  180
tttcaccatg ttgcccaggc tggctctgaa ctcccgagct caagtgatcc gcccaccttg  240
gcctctcaag tgctgggatt ataggtgtga gctaccgcac ccagccaaga gtcaatctgt  300
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acatgagggc atggcagagt aaaataggaa gaaaagtcca gaatatggna ttacagaggc  420
agggattaga aatatTTncc tgataagtgg gtttcancng angnagtatt aacaagctaa  480
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ttttggggg                                     549

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<210> 7078

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7078

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gagatgccgg ccaggaagcc tgggaaattc ctcccctctg caggccccac cccgtgctaa  180
tcctggctcc acctcacctc cggccagctt ctcttgact cacatgactt ttctatattg  240
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gtgcagtctg gaagaacttc tcagctctca gccacgggaa ggcgatcact cagcctaagg 360
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 ggtgaaggaa cgcacatggg tgatgcaaac atgatatctg actcttgctg gcancaagct 480
 gtgctgacat tttttacncc tgnittcttg aacttgaang gcctaaaagc cttgcccttn 540
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<210> 7079

<211> 383

<212> DNA

<213> Homo sapiens

<400> 7079

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 gggagaggca ggaagaggca gtagaggga atgacatttg cactcaggct tcccgccctt 180
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 tggagtccag ctaattgcca ggagctgagg cgtgtacaag ccatgaaaag agctgccccca 300
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<210> 7080

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7080

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 ctgggactac aggcgcccgc caccgcgccc ggctaatttt ttgnattttt ttagtanana 180

cggggtttca ccttgtagc caggatggnc tcaatctcct gacctnacga tccacccgcc 240
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 atttaagttg gacttcaactt ttctctggng tctcctaaat tagcttaata atcaatcttc 360
 tgacttcttt tcctggcaat tcatagactt catcttggtt tgcattccatt gctgggtgagc 420
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<210> 7081

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7081

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 gtgtgccacc atgcctggtt aatttttgta tttttataag agatgggatc cagctgatgg 180
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 caggccacat gttggtcaga gatagtaggt tgccaaagca acaaccatga agaagtcatg 420
 gctcagtaga atagtggaat cctttcttta ctctctatgg acaaccaaca ctccaacaag 480
 acagactggc taaaacattn canaagagac ttaaagaggt gcngacntaa aacanttggt 540
 ggcnaaagca agggcnctgg gacaagg 567

<210> 7082

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7082

| | |
|--|-----|
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| aggtactgaa cacttacacc aatcacctcc attactcagc tcctaagcag agatggaagc | 120 |
| ctcctaggtg gaatgttgaa ttgattttg aattctctct tcaacatttt cagcataaaa | 180 |
| ttcttttcca ctcctagata atatgccttt tctatcttct cttctctgta aaacacttgg | 240 |
| ctttgagatc ctgagaggtc ttacttagtt gtgggtcttt gattatctca ggttttctgg | 300 |
| gcactttgtt aaatgaagat tctggtccaa caggctctggg gtggggccta aaattatgca | 360 |
| tttctgacaa gtccccaggg gaagtctatg gggctggcct aggggccaca ctcggaatag | 420 |
| gaaggtctaa agaaatcngc attgtaaaag gaaaaatnaa cattttgagg cttaatggca | 480 |
| gcagcattgn gggctgataa tacctggcag acaaantatc tcagcatcaa ttcttgggtcc | 540 |
| taggagttga agcccccaag ttgnttnc | 568 |

<210> 7083

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7083

| | |
|--|-----|
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| tctccgtgtc agaatggagt gcccttgect cccgtaaact cttcagccta ctacccccatc | 120 |
| aggcgtgtag ccagatatcc tcatgtagct aaatccatgg acatcattct gttacatctt | 180 |
| aagcatctct taggtccgct agaaacagtg gactgctgcc tccttcctgt cttggtttct | 240 |
| ataggactgc attctcttga tttctattat tctgtctacc ccattctcagt ttcctttgct | 300 |
| ccttgctgct tctgtactga tctctcaaca caggagattc ccaagggtc agaactagcc | 360 |
| cttctctctc ttccattctc tccctcgatg atatcgccat ttccatgggt ttaaatacca | 420 |
| tctgcatgtt gatttccaca tccataactc cagtctacat ggcttctctg nccaccatat | 480 |
| tcacatatct naccattgct tggacatcta aactcagcat ggtctaaact naacacttac | 540 |
| aatgntctaa accnggtctc tgnntttgna | 570 |

<210> 7084

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7084

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gagacatgca tcaccatgcc cagttagttt ttttaatttt ttagagaca gggctctcact  180
ttgtggccca gcctggctct gaactcctgg gctcaagcca tccttctgcc ttggactccc  240
aaagtgttgg gattacaggt gtgggccact gtgtccttcc ttaacataat aaaattgaga  300
taatcacatt cataaaaggg caaaactatg tcaacaagcc cactgtatta gtctgtcttc  360
acagtgtgtt aaagaactgc ccaagactgg gtaatttata aaggaaacag gttaactgac  420
tcacagttta acatggctgg gaaggcctca ggaaacttaa caatcatggc agaaggcaaa  480
aggggaaaca agggaccttc ttcataaggc anatgaagga aaattaatgc nggagggact  540
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<210> 7085

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7085

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actaatggct ggttttaatt ttttagagg aaatactata atttaaaaaa aagttccaaa   60
atatttaaca gaatttccag caatgattat ttccaaaatg taaagatttg aaacataatt  120
tatacaaaac taaaaaccag aaggattcat tcttgctttt tcctttttta aaaaatccag  180
acatttgtca caagaaagtt cggcatgtga tagcagctgt agcctcagtc accctcagaa  240
tcgctgtccc tcctcatgag gacagagtgc cacactgatg acagcaatac atcttcaatc  300
ggcttcttag ggttttcctc cagggtccatc ataattgctc cagattcaga cagtttccat  360

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tccaactcat ctcttgtcag gttcatgcc ccaaacacca gaggaccaat aaactgagcc 420
 ttgatatctc cticcaggta aacaaatata ggggcagatt cctatcagga taattgggta 480
 tgcaggttgn tgaaatggct ttgataaatt gacatcaggg aacnttctgg gnagnccctg 540
 gnggtctgaa ttattanggc nca 563

<210> 7086

<211> 485

<212> DNA

<213> Homo sapiens

<400> 7086

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 gactacagge atgcaccgcc ctgcctggct aatttttttg tatttttttt tagtagaaac 180
 ggagtttcac cgtgttgccc aggctgggtc ggaactcctg agtcaggca atccaccgc 240
 cttggcctcc caaagtgcta agattacagt tgtgagccac tgcacctggc caaatactcg 300
 gtattcttga aagcattcta ttagtacaag gcatttttac tttcttcac cctgctggct 360
 actccctcag agacggagag tccctcaaag tctcccact tctccctatc ctccctgtc 420
 ctagaagcac gaaacctacc tntccgggct gccctngccc tngngaacac tgactnntnt 480
 gacaa 485

<210> 7087

<211> 396

<212> DNA

<213> Homo sapiens

<400> 7087

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 gctcactgca acccccgccct cctgggttca agtgattctc ctgcctcagc ctcccgagta 120

gctggaataa caggcaccgc ccactatgcc cggctaattt tttgtatttt tggtagagac 180
 ggggtttcac catgttggc aggcgtggtc tgaactcctg acctcgtgat ctgcctgcct 240
 tggcctccca aagtgcctggg attacaggctg tgagccactg cgcccagcca tgctgctatc 300
 tttttttttt tttttttttt tttttttttt ganacggagt cttgctntgt caccaggct 360
 ngantgcagn ggcccaatct tggctnacta caanct 396

<210> 7088

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7088

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 gctcactgca gcctccactt gctgggttca cagcattctc acacctcagc ttcccatata 120
 gctgggatta caggcatgtg ccactatgcc tggctgattt ttgtattttt ggtagagaca 180
 gggttttacc atgttggcca agctgggtctc aaactcctgg cctcaattaa tctgcctgtc 240
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 ttttaaaata aggggcactc atgcanagtt tctgtgctca gcaataatag caactgctaa 360
 tacttggaca ggccttttgc atcatcttat tanaaggggt ccaactataa ttgncagggt 420
 agctaataat ctatacagta ttgcaagta caaattcaca atgatcaatg atctgnttct 480
 ctaaagacag gccaaaaact aattaatggt tncntatatac ctaaaggcaa tgggaaangg 540
 cttaagtaaa ggggtgaangg gaaaaggccc gacaaaacna 580

<210> 7089

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7089

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 tacagggtgcc cgccaccaca cctggctaata ttttgtatct ttagtagaga cgggggtttca 180
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 gatggagttt cgctcctgtt gccccgctg gagtacaatg gcacgatttt ggctcactgc 360
 aacctntacc tcccagagtc aagcgattct tctgcctcag ccaccaagt agctgggatt 420
 acaggcatgc accaccacgc ccggnataatc tggattttta ggtanaaaca ggggttcacc 480
 atgttggtca agctgggctt cgaacttctg gactnaactg aaccgctggc ttaaacttcc 540
 ataagggtng gattccaggg gtgaacctn 569

<210> 7090

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7090

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 aagcaaatga aaaccaagac atatttttct gctcttttat ttatattgat gaaacctcaa 180
 agtctgtact caaatactta ttaaaatata tccatacata tatgatttct tgtcaaaatg 240
 catcattctt cttcaaatac aaaaacaaaa atattttcac tttcctaaaa ccatactttt 300
 ttcttagatc acacttttat ctttctctg agtatagccc tggaaaagca gtttgaatgc 360
 aaagcccctt gacaaaatat ctgcttttta aaaatgttaa ttaatacac aagaaaaaaa 420
 aaagcctctg ggagaagagg ataaagaagt taggatttct aactcctagg ctaaaaaaca 480
 gcatatcaga aagccattca atttcctttc aatgctggat naagncttca ttttaatcnt 540
 cattatnaat ggnggacctt aatncctaac tgnTTTT 577

<210> 7091

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7091

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caagctccgc ctcccagggt cacaccattc tcctgcctca gcctcccaag tagctgggac  120
tacgggtgcc caccaccatg ccagctaata tttttttgta tttttagtag agacgggggt  180
tcactctgtc agccaggatg atctcgatct cctgacctca tgatccgccc gctcggcctc  240
ccaaagtgtt gggattacag gcgtgagcca ccatgccagc ctcccagggt cttctaactt  300
atatgaccag cccaacactg tcctaggaac aaaccagtga cctaattagc taacatgaac  360
caaactgata atacttggcc agctaaatga agtgatgggt ggatatgtaa taatcataca  420
tctatcaaga ctaagtttgg taacttaaca aatctcagca atcccttact ccctttataa  480
cagaagtgcg cagaatcaac ntttctaaga gagtntctaa gggaaatggt naaggggaca  540
actggattta agcttttcct ggcagaaaag cttaa                                575

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<210> 7092

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7092

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caagctcagc ctctgggtt tacgccattc tcctgcctca gcctcctgag tagctgggac  120
tacaggtgcc cgccactgcg cctggctaata ttttttgat ttttagtag agacgggggt  180
tcactgtggt ctcgatctcc tgacctcatg atccaccgc cttggcctcc caaagtgtg  240
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ctgccttaat ctcccaaagt gctgggatta ccagcatgag ccaactgtgc caaccagttt  360
ggcactgttt tcctaagaat ttttaacca atgttcataa gcaatattgg tcaagttggt  420

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ttcttgnant gnccttgctg accctagcat caaaggcaat gcttggctca tagaacgaag 480
 ttagaaagga atttcctcct ctttnaagtt ttigaaagaa gttgcaaagg atggcantaa 540
 attttcggtt aaaggctggn a 561

<210> 7093

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7093

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 ggaccacagg tgcccggccac caggcccggc taatTTTTTT ttgtatTTTT agtggagacg 180
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 gtgacctctg tggcagacca agggacacag ctatggccgg gacaccaaca gcttctgcta 480
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 tntaangga acattttaga ngg 563

<210> 7094

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7094

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tgtcaattca tccatctcaa cctccaccca ggactgtgcc cttgctgtag aggtgttgtg 180
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 gtacctcttc tgtagggctg ctgtggtttg ctggggattc acttcaagcc ctatttatct 420
 gggtcctcc cacacctgaa gatgtcacca ganggtgctg gagaacagca aagatgggac 480
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 ctcctgnata agggggctg 559

<210> 7095

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7095

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 caggcgtgtg cctccatgcc cagatgattt ttgttatatt ttgtagagac aggatcttgt 180
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 cccaaatgaa gtgaggtctc agtgtggcag gatgtagggc tttgggtgtg tgggtgggtgc 420
 angctggtac tctttcccta tggagaaaca ctctaccct aacccttgg gtcgcaactg 480
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<210> 7096

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7096

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gttgattcan aggttttaag cccatgcttt ggtagataaa tagagtattt tgagtaactt 480
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ttatccatga cccttgattt 560

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<210> 7097

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7097

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tccgccactt tttctttctt gaaactgggt cttgttctgt tgcccaagct ggagtgcagt 180
gttataatca cagctcactg cagcctcaac ctctgggct caagctgtcc ttccacttca 240
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ttttattttg tagagataag gtctcactat gttgcctaag ctgatcttga actcctgggc 360
tcaagaaatc ctctgcctt ggccttgaaa atgttgggtg tacaggtgtg agccactgtg 420
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nnnnnaaaaa aactaccac 500

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<210> 7098

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7098

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catagcaaat ggtaattgaa ataataacc caagcctagc agctcatgcc tgtagtctca 420
gcacttcagg aggctgangc aggagaatcg ctttaaccta ngangccaag gctatagtga 480
gccatgactg gaccactggt acttccaagc cttgggcacc anaancagaa cctgggtcaa 540
aaaagaaaga gaaaaaacc
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559

<210> 7099

<211> 432

<212> DNA

<213> Homo sapiens

<400> 7099

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acgggtgggc acaggagaaa gcgccaccat cgatcccgnn tgctgccctg gaaatgtgat 180
tttcttaata gctgagttca tggttgcttg aggtcaggcc tggctattca tttccagcga 240
tgtctgacca gagaggactc atcattgacg acctcagggt cacgggggac acgctgacac 300
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cggaacggca gcagcagcag gacgattaag acaaggagga tggctccaca gacgctcatg 360
agcgcataagg acacaatcca caaaatggnc tcgctcaaan actgancggg gacncngttg 420
ntggctacan cc 432

<210> 7100

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7100

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ccaaagtgtt gggattacag tcgtgagcca ccgcacctgg ctctttcctc ttttatgggtg 300
aggaaaaagc agtgaaatag aagtcaatgg cctcaaagtt gagtatcagc accagtatit 360
accaaataatg caaccttaga caagtcactt agcctcagtt ttctctcttc taaaagggga 420
ctagtaacag caacaatatt ctgaggatca tataaggnaa taaatatgaa aagtgttcta 480
cgaactttta actggcgntc aaaacaaagc tatgtcattt catcatccca taatgatctc 540
aacagacttt ntac 554

<210> 7101

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7101

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gtcatgcttg ctgcttatca gcgccctcca aaccagaat gtccactcag tgcatttggg 180
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 cgagtagctg ggattacagg cacacgccac cgnattcagc taatttggat tttaggagag 480
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 tttgggcttc caaagg 556

<210> 7102

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7102

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 ttctctgtga ggtctccctg tccactgtgc cctgatcaac cctccacccc ttcactgtct 180
 ttacttccct catttccctt aagcagacaa aagtcaggt ctctgggtcca cagcttcaga 240
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 ccaagaggca cccgttggtg atggtcacag gagagaggtg atcagtggag ccagggactg 360
 ggccatcctg ctatagatca cactgctgag ttttggttgt atttgtttta gaagcagcca 420
 tcattcaccg aggggggagag aggaaaggga agagagggga agagaagaat ggggagggat 480
 atttaccgt gtgaacaaag gccagcccaa ggcttaaagc cgcaccctg anaggcttca 540
 cctgttgggg aaaac 555

<210> 7103

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7103

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gagacggagt tttgctcttg ttaccaggc tggagtgcag ccttggtacc caggctggag   60
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ctagtagctg ggattacagg catgtgccac cacaccagc taattttgta ttttagtag  180
agacgggggtt tctccatggt ggtcaggctg gtctcaaact cctgacctca tgtgatccac  240
ccgcctcggc ttcccaaagt gctgggattg caggcgtgag ccaccgcgc cggcctgttt  300
aatttcctaa tgtttactga gactcttcaa gagtgggaga gggatataat atacagcatt  360
tcctcagttt atttagccac tgaatttatt ttttgtaagc atctcaagga acttgagccc  420
aaattttgca aaactgcatg taatatacaa tgttgctttg gttgcctttt ccagcttctg  480
nnagagaata tttaaattat tttatcttac ttataaacat ttttaaattg ngatattgng  540
aacctgnatt ggcccangnc atta                                           564

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<210> 7104

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7104

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gagacagagt ctttgctctg tcgcccaggc tggagtgcag tggcgcgatc tcggctcact   60
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ctacaggcac cgccaccac acccagctaa ttttttgtat ttttagtag agacagggtt  180
tcaccgtgtt agccaggatg gtctcgatct cctgaccttg tgatctgctg cctcggcctc  240
acaaagtgct gggattacag gcgtgagcca ccgtgcccgg ccataatct ggttttgtac  300
cagtcttcaa aaccttcag ctacactggc cacactatat tttcaaatta atctttcact  360
gctctagctc tatggccatc ttcttctct ggaccattta atcatgaatc cagaaaatcc  420
taccagaga aggcagaaaa nagaggacaa gaagtctnca ttcttttggg tccatcacct  480
gatgggcccc tctgaatttc tgggggaaca aggatctgag cgggtccttg gaaagcaata  540

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cccantggga nccaaaacnt

560

<210> 7105

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7105

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tggggattcc tgggactgat ggctgtccat ggggtcattc tctttggtct ccctttgctg 120
gtggtcctca tggggggcca gtggagcggg ttctgaggct ggtgtggtac ccacaccacc 180
cctgctgaga tacagcacct ggtcgtggc actggggagg ctctctcctg gcaccgagga 240
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aatgacggaa acctttgaaa aggggtggga gggcttgaaa tccaggcctt cttcctggga 480
ctnccaaggg cttccaactg acacaactgc ttgggggctg gaaaaanaaa tccttgncca 540
aaccttggag ggnaatggg 559
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<210> 7106

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7106

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gttttttgtt tttttttttt gagacagagt ctgctcagt caccaggt ggagtgcagt 60
ggtgcgatct cagctcactg caggctctgc ctcccaggtt cacaccattc tcctgcctca 120
gcctccccag tagctgggac tacagggtgcc caccaccag cccggctaata tttttgtat 180
ttttagtaga gacgggggtt caccgtgtta gccaggatgg tctcgatctc ctgacctcat 240
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gatcctcccg cctcagcctc ccaaagtgt gggattacag gctcgagcca ccgcgcctgg 300
 cctagcagac atttttaaac acccaatatg ggtattgttg tgggggataa aaagacgtac 360
 aaaatatagt cctcagcttt aagaagtcta tagttttgtc aagaggattt gggaattctg 420
 aaaacagttc tgtggcttct agaaagacat ttttccata aactnctctg ggctcttgng 480
 ccancgnac tcattctcat agagnaagtg agttncccga acttaacttt taaaaaagga 540
 accgatttgg angggttctt ggg 563

<210> 7107

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7107

ccaaanggta aatctntgng tattcatgcc taatcttcca aggttgngta aataattttt 60
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 ggtaggtagt ttctctntac ttngccgtt gnccttgggg tgatgtcggg gcctgtgccc 180
 tgaacgcact tgtctcctgt gcaggggcag ngccagggtt ggcatcagng gctggnggag 240
 cttctnagtn ggctattttc tcaatctcgt ccaaatacatn tgggnccaat ctttctatct 300
 tcttattaaa angctcctgg attctgttca ggatgttcat gctgtgcttg ctgtccacca 360
 tgttcactgc caggcccntt ttgccaaagc ggccgtgcgc ccgaccggtg caggtaggtc 420
 tcattgncag gattcccggc cttncacgg gaagaacaaa gttgatgacc accngacctt 480
 ggtcaaacat taatgccgng ggcaccccn ttggggggan caaaacctt tttt 534

<210> 7108

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7108

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 ctgggactac aggtgcatgc caccacacct ggctagtttt tgtatttttt tggagagaca 180
 aagttttgcc acattgcccc ggctggtctt aaactcctgg actcaagtga tccaccacc 240
 tcggcctccc aaagtactgg gaatacaggc atgagccacc atacctggcc tagaactact 300
 tttcacaaca gtatcatgga aaggaatagc tctctcactc tctcaatata tgtattatgt 360
 atataaaaca atgaacatgc ctatcagatt gaacaaaaca cagatctgaa ggtgctattt 420
 ctacattttg aaggttatcc aaaagtataa attaaaaaaa aggagaatgg caagtggttt 480
 aacgcattgg tcataaatac tgggacagaa acncnccagt cancangtta attgcctggg 540
 anttaanccn cccttt 556

<210> 7109

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7109

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 cctttatgat ggaggcagct cctccccaag gtccactta cagagtgaga ctttgtcta 180
 cttctgtttg gcatgtgctg gccatgtgca aaccacaat tatattggcc aatggcaaac 240
 agaattggga aaccaacct ttccaataaa ataagggttc atttcaaacc agataacccc 300
 attttgggga ttaccaattg ctttggagtt tctaaatcac ttctcccatc tgcatacatg 360
 ggcaacaggg ctaacttacc acctnccagt gaaaaataaa aagataacca aacctggac 420
 ctctgttgcc ctccctntcc cgtgcctggg ttctcatcc ttgcatttct tggctggngc 480
 tatccttggg aagccagnca ccagtcnatg gctctattgg ctggnaattg ctttggntat 540
 attggnacct tgaaag 556

<210> 7110

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7110

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acctctgcct cctaggttta agcgattcta ttcttgtgtc tcagacacct gactacctgg 120
cactgcaggt atatagcacc atgcccaact aatttttcta ttttagtag agactgggtt 180
caccatgttg gccaggctga tattgaacct ctgagctcac gtgatctgtc tgccttggcc 240
tcccaaagtg ctgggattac aggtgtgagc caccgcacct ggccaaatgg taggtttttt 300
aaaagctcat attaaaatat ttctttccat gtcaccacat gggcttgaca gcaataattt 360
aaaattggtg tataatattc tattagattg atacattatt tacctcgcta tttattagat 420
atttttattt gctttaaact gttttcaca agtatcaaca attatgaatg ncttcattta 480
tatatacctt ttaactttct ggcctatttc cttnaaatte ataccngaa acacccccca 540
nttaaaaaaa ggggt 555

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<210> 7111

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7111

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tggaagtcct gataagctta ttggactata agaggggatc ttcattagca gtgctgagaa 180
atcccaactc ctgataccaa atgctgttga gcttttgtct tccaatttca ctttttttct 240
tgttttcgat attcctgctg ctgctggagc tcctcttcca tcagctattg ctttgaaga 300
aggatttga agcatctgtg taccctcttt ttctgccctg ggacattcat tacggtaaga 360
ggaatctgag gctaccggtg ctgtaacttc tgaaccacga ctttaagtcaa gagggagaca 420

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gggtcccagc ttctcaagtg gcaaagtgc aacatcaggc ataagtttta tttatcactg 480
aagaagaaag ctgagatnca agcggcaaaa ncttgacttg gattaaatct ngggaaaatg 540
gggaattaag ggggnntn 558

<210> 7112

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7112

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ttttccgttt gtttgtgtcc tctcttattt ccttgagcag tggtttgtaa ttctccttga 180
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aaacagggat aagtttgact tcctctcttt tatttgaatc cttttattct ttctcttgcc 480
tgaatgncct ggccanactt ncaacactat gtgaataaaa tggtgaaaaa nggcaacctt 540
gcttgggnc 549

<210> 7113

<211> 539

<212> DNA

<213> Homo sapiens

<400> 7113

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ttttttgtt gctactaatg ttatgcacat aaggtttgta acttcttagc ccaagccaaa 120

gttctatggc agctttggtg gacagttctc atatggtttg aggtctttct acctcaagtt 180
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 agtaattggg agacagacat cccagtttcc ttgatcctgc atgggacaat tctaaggtgt 360
 gtttcatggg ctctgagagg gtcccagcag gactgagtgc agttgcccac aggagtaact 420
 ttttcaataa tatecttcct tattgacttt tctcatcctt atgncttacc tggccctaaa 480
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<210> 7114

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7114

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 agagagaaag gcaggttaagt gccgggaaaa atggaaacag agtaagatga aggggcgaag 360
 cagaaagaca ggaggcgaaa gggtgaaaaa gccagaaaaa caccaagata caggtctctt 420
 tcctttccag atcgggggtg ggggtctccg gctctctcgc gtctgtgtcc cccaaccca 480
 gttggaaggg cantgtgaac ctngctcant tcctgagtgg acgtcaanga ctagcaggtg 540
 anaaaaaggc caccgaggac ttc 563

<210> 7115

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7115

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ttacaggcat gcaccaccac acctggccaa ttttgtatit ttagtagaga tggggtttct 180
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tatttctgag ggctctggtc tgggtccattg gnctattaca tatggctagn cagtttttnc 480
aanaccattt attaataggg aatccttttc ccaagtatgg ttttgcaagg ttgncaaaga 540
tcaaatggtt gaaggggnng g 561

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<210> 7116

<211> 470

<212> DNA

<213> Homo sapiens

<400> 7116

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cgattctctt gcctcagcct cccaagtagc tgggactaca ggtacacacc accatgcccg 180
gctaattttt ttgtatgaga acactttttt gnactatit ggaagaacc actagatgta 240
ctattaaaag aaaaatgcat atacacctac tatgtaccca caacactta aatttaaaat 300
taanaaaaag aaaaatgcaa agtnccaaac agtatgnata atatgctatc tgntaattaa 360
aatgctaaaa gangaagaaa cagtnggaca gcaagaatca cacattctag caaaacccca 420
tntctacaaa aaatacnaaa atanctgggc ataanggcac acacctnttg 470

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<210> 7117

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7117

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caagtgatcc tcccatcttg gcctcccaca gtgctgggat tacaggcatg agccactgca 120
cctggcctgc ctctaccttc ccagccctga cagtttcacg gtggcctgca ccctactcaa 180
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atcaaacgaa tggcctcaga atgccccggt caagtcctgg cccccaact tctttcacgg 480
aagcttcttc ccaagggcct anctggcaat ataattctgg gaaaaggta catntttagt 540
gacggttggt tatctggggc aatccgtcnt tgn 573
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<210> 7118

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7118

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agacaaggtc tcattcttgt tgcccaggct ggagtgcaga gtcacgatca cggctcactg 60
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ctacagatgt gcaccaccac gctaattttt gtactttttt gtagagatgg cattttgcca 180
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aaatattggg attataggtg tgagtcaccg tgcctggccc tctaaaagtc cttttccttt 300
tttttttttt tttttttggn ggattcttgc tctgtcacc aggcgaggat gcagtggcac 360
aatcttggct gacttcaacc tctgccttct gggttcaagc aattctcctg cctcagcctc 420
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ccgagtaact ggggttatag gcatgagcca ccttgccctg gcatctntca gcttcaaaaa 480
gagatttaac aattaatcct cgactcttat cactaggaaa caaacaaggg catctnttct 540
ntttggctaa aggaaaa 557

<210> 7119

<211> 462

<212> DNA

<213> Homo sapiens

<400> 7119

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tacaggtgcc cgccaccacg cccggctaata tttttttttt ttttgnattt tagtanagac 180
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atttctattt ttttttgaga aagagtcttg ctttgttgcc caggctggag tgcagtggcg 360
agatctcgnn tcactgcaat ctacagcttc tgggttcaaa cgattctctg ntnagcctcc 420
tgagaagtan ctnggatcac anggggtcca caccatgccc an 462

<210> 7120

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7120

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cagcctctgc ctactgggtt cgagcgattc tcctgcctca ttgggcactg aatttgtgga 120
tattcattat attattagta taagtaaaat aaaaataagc aaaacagggt catgcttgga 180
tcaatgagga tactatgtta tgagccaagg aaaaactgag gagccagaga cctcaagaag 240

ccaaacatac aatgtataaa caacaaaaca gagtaagaag ctattttaaa atacagtaaa 300
 acaaaagagg attggtttct caaatgtaaa accacacgct ttctgagggc cttgacctaa 360
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 aaaataaatg gtgggctata ttttatttct tgcagcactc aaagaaaaaa ngcccaagta 480
 gaaaggttct ctatgggggt tcnatctna aancctttta atctggaaat aattacngnt 540
 ccnttcttaa ggggtta 557

<210> 7121

<211> 452

<212> DNA

<213> Homo sapiens

<400> 7121

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 aaattttaaa atacaaagaa ggggctggga gcggtggctc acgtctgtaa tcccagcact 180
 ttgggaggcc gaggtgggag gatcacgagg tcaggagatc aagaccatcc tggctaacat 240
 ggtgaaaacc catctctact aaaaaaatat atatataata aattagccgg gcgtggtgat 300
 ggggtgcctgt agtcccagct actcaggagg ctgaggcagg agaatggtgt gaaccggaa 360
 ggtggagctt gcagttagct gagatcaggc cactgcattc cagcctgggc gacagagtga 420
 gactccgctc aaaaaaacnn nnnnnaaaaa aa 452

<210> 7122

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7122

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tcacaaaaac ctccacctca cggcttcaag cgattctcct gcctcagcct cccaagtagc 120
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 tttctccatg ttggtcaggc tggctcctaaa ttcccgacct caggtgatcc acccgccctca 240
 gcctcccaaa gtgctgggat tacaggcggt agctaccgca ctcagccatg aaattttttt 300
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 tcctaagtct atactgcttt atattataat tccaattcat ttgctgagaa ttctctttcc 420
 ccatacccca catgaacatt ttattttccc atatgcactg ncatacatta caaagtccat 480
 tggcaaatac ccaaattgaa cagcagaatt tggggaaggc tgggatnaag naaaatgcnt 540
 tatctggttn aaagaagttt tnt 563

<210> 7123

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7123

gatgtagtct tgctctgtca cccaggctgg agtgcagtgg ctcaactgcaa cctccccgct 60
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 agggtttcac catgttggcc aggctggtct cgaactcctg accttgtaat ccaccacct 180
 gagcctccca aagtgtctggg attacaggca tgagccaccg caccggccc cattagtaac 240
 ctctttctgt ttcaggatcc aatccagggt agcacattgc atttagctgt gatcagatca 300
 tgaatctgta atgcttatat aggttccta aatgtgtggt tttcagcctc agactactcc 360
 cctaatecta gacgcctgtc ctctgcctag cccttatcac caaaaagggg cccagggggc 420
 actgnggatt atggtcagna aacacctcta gaggggtgggc catgaacgcc cctttgatca 480
 ctaagtccta tgctcaactgn tcaatgccac cagaattttc ttgnggggta aggnaaaggt 540
 ttagaaaccc gacngaggta nncggttgtc nctt 574

<210> 7124

<211> 408

<212> DNA

<213> Homo sapiens

<400> 7124

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cttttttttt tttgagacag agactcactg ttgcccaggc tggagtgcag tgggtgcaatc   60
tcagctgact gcaaactccg tctcccgggt tcacgccatt ctctgcctc agcctcccga  120
gtagctggga ctacaggcgc ccgccaccac gcccggttaa atttttttna ttttttttta  180
gtagagacag ggtttcaccg ngttagccag aatgggtctcg atctcctgac ctcatgatcc  240
gcccgctca gcctcccaaa gtgctgggat tacaggcgtg agccacgcac ccggcctttt  300
tttttttttt tttttttttt tttttganac anagtcttgc tctgttgccc aggctgaaat  360
gcagnggcnc aatntctgnt cactgnaaca tccacctccc gggttcaa                    408

```

<210> 7125

<211> 505

<212> DNA

<213> Homo sapiens

<400> 7125

```

gcttggaac acaaagtatt taataggatt tgctgactgc cataacatag aaactcaaaa   60
tacagtttca tggttctttt gccttgaagt aagcaaattc attcatttgt tcattcattc  120
attcatttat tcaacacaca ttactgagc acctaccaca ttccaggatc tgtgcaaggt  180
tctggggata ggaagatgaa tagaaggaca cagctcctgc cctccaggag ctcaaatct  240
gatggaggag gtgacgttct tgggtggtgt tccaagaaag aacagatcag aggagaggag  300
acaggaaaga gaaaaagttt cactttggac atgatgagtt tgctgggcct gcagaacatc  360
cgagaggatg agtggggctg gagctcaaat gcaagatcgg ggaatacaga tttgagaatc  420
atcagcccta angnggncat taaatgaang gtctgnctga gtcatgcnaa aactgtgtgc  480
agaatgacnt gagaatgaat caagg                                           505

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<210> 7126

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7126

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gagacagggt cttgttctgt agcccaggct ggagtgtagt ggcactctca cggctcactg   60
cagcatcaac ctcccgagct caagccatcc tctgcctcc tgaatagctg ggactacaga  120
tatgtgccac tgtgcccagc taattattac tgttattatg tttagtagag acaaggctctc  180
actatgttgc ccagggtggt ctggaagtcc tgagctcaaa tgatcctccc accgcagcct  240
cccaaagtgc tgggattaca ggcatgagcc attacacgtg gccaaccatc ctttattatg  300
ctcttatatg ttattattaa ctcacagtta ctgtgatcaa gaagagctaa aatttacaat  360
gggcttcctg tgggccagggt cctattcaga gtggcccaga gagaggcagt acctgcctgg  420
ggccgcatgg cgaataagca gaacagggat gggaaaacaa gtgggtggcg gaatcctgga  480
ttccatgcct taccagntn ttaaaacagc ttatgtcctg ggcctttact ggngccaggc  540
gcccggccaa ccttttn                                     557
    
```

<210> 7127

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7127

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aaacaagttt tattttgaga acattttaaa atacagaaaa agtacacagg gtcataccat   60
accagctgc tcagaattga caattgttca ttaccatttc ttttttttaa gttgaaacag  120
ggcttcatta tgttgcccag gccggtcttg aactcctggg ctcaagcaat ctgcctgtct  180
cggcctccaa aagtgtctggg agtacaggct tgagccaccg cacctggcct attttatcat  240
tcttttccaa cctttttcta ccttggtctt tccacaggct ccagggaggt ctagcttggc  300
tggtcaaaac ggaggtgaca ttgacagaaa gtgagtgatt aaaggttggg tgtcagagtc  360
ggacagatct gggttttttt tggagacaga gtcttactct gtcgctcagc tggaatgcag  420
    
```

tgggcacgat ctaggctcac tgcaaccacc acctnctggg ttcaagtgat tctcctgcct 480
nagccccctg agtagctggg atttncggtg tgnngccacc acgccaagtt aattttggga 540
ttttggnaa aaacggggtt ttgccctt 568

<210> 7128

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7128

cgttcgtaca atgtttattg aatgtcaa atgtgccagg cactgtgcaa aatcacataa 60
aaatgaggtg ggaggagtgc agtggacagg gagcgccagc aggtcaggca ggagtacaga 120
caggcaaaga cacagacttc gaagccagag accagcgccg gagctgatgc ctgcttgcct 180
gcctgctgag ggcgagaatg cacctgctgt gggggcctga cctcaccgag gacacccacc 240
gcgggagcac cagccctccc ccggtcccca gggtagtgaa gccagggggc tttgtagccc 300
cacattgccc ggagttggat acaaacatcc caagagctag gggtagcctt actggctgga 360
aggtgaccgt tccatttccc caacatgaac tcagaaagct tcagccaggc gcaggaacat 420
cccagggaag agctggctga gggcttccct aatgcagggg tgtttctnct ggccccgtgc 480
caagcagnca ccaanactgg caccaaatgg ttaaggaaaa taggcaaaga aagcnnittgn 540
cctttanttt cttccttccc aggcatt 566

<210> 7129

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7129

attgagaaac tgtttttctt acagaagtgg cagtgtagaa taaataacgc gagggacaga 60
gagtgtgagg taccaagagg ctaaagaagc tgggaggttt gcctttaaaa ggagacaaaa 120

atcccaggga agctgcaagc ggaagggagt ggggtggccc ggaggcggag gactcaactt 180
 acagaggtga agtctgcaaa gcccaggga gaggccttag aaggtttagc tgcagaggag 240
 gggacaaatg ggtcttttcc actaaacggg tccccaaacc cttttttact ttggaacggg 300
 tcgccgctgt cagccccgag tggctggagt ggatcggggg cctcgggaaa gtctgcggaa 360
 ccaagctggc ttacaggtgt acttttacct tggacatctg gctgaagtcg gcaaagcctt 420
 cagcactatt gaaggaccca cttccgaagg gatctaaggt tccaaaggga tctgacctt 480
 ttgaggagac cctggaggat gaaaaaggga tcaactggatt caaagggtcg agcttcnaag 540
 gtaaggaagg gtttttcggaa tggatcccag 570

<210> 7130

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7130

acaaagaatc aactttattg aacattcagg gtcagtttct cttcttgctc ttgcctgtga 60
 ccttggctgg tgtgaggact ggagctgctg cctggtacag ggnggaggan atcttgttga 120
 tgtagtacag accaaccatg ganaanatga agcaggnggt gacacanact cgngnggatga 180
 ggccagatgc aaagagagcc aacaggaggc acagganaac tagggaggca agaagaacaa 240
 ggagggcaac ggtcanaatg gaaatactag gcatctgcac atggagtcca gganaaatcc 300
 ggggctctct gaatcctggg gaacctgctt anaagggtaa gcgtgactac agcaggagga 360
 ttctgattac cttaatgata cccagaacat ggaggttagga ggttgagtgt ggtggcttgc 420
 acctggaatc ccagcacttc ggnagggctg aggtgggcag atcactttga gcccaggagt 480
 ttganaccag cctgaacaac aaaggagac ccatctntta aaaaaaaaaa aaaattgant 540
 ttaaaaaaat ttt 553

<210> 7131

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7131

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cttttctttt ttttgagaga gtcttgctgt cgcccaggct gaagagcagc agtggtgcga 60
tctcagctca ctgcaacctc caccaccgg gttcaagcca tctgcctca gcctcccaaa 120
tagctgggat tacaggcaca cgccaccagg cccagctaata atatatatat atatacacac 180
acacacatat atatatagga gacagagtct cactgtcacc caggctggag tgcaatgggtg 240
agatctcggc tcaactgcaac ctctgcctcc cgggttcaag cgattcttct gcctcagcct 300
ccaagtagc tggaactaca ggtgcacgtc accataccag ctaatttttg tagtttttagt 360
agagatgggg tttcaccata ctggccaggc tggctcttga actcctgacc tcgtgatcca 420
ccgcctcgg cctcccaaag tgctgggatt acaggcgtga gccaccggcc cagccaattt 480
ttggatttta gtagagacag gttccgcatg ttggccaggc tagtctcaaa cttctggact 540
tangnggatc caccaccttg ggcttcna 569

```

<210> 7132

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7132

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aactcactta aaaatatctt ctaattttcc cttgtgagct cttctttaac ctatgggtta 60
ttcagaaatc tcttacttaa tttctgatgg acatacatgg agtgaaagag agaagtcaat 120
ggggactcca aagtttttga gtggagcaac tggaaggatg gcagtgcttt tcagtgagtg 180
ggaaggaatg caagcagagc agattttaat ctctggaaat gtttgtgaag gctcgatatt 240
agttctatgt ttgacagaat tcatcagtga agacaaaata acctcctgag gttatttttg 300
ggcaagaaca ggggtgcagt tctggatctg ttcagtggaa atgcccatta aaaagccatc 360
aagatgtgga acaggcaact ggatatggaa atattgagtc tggggagcag tctaggttgg 420
tgtcttcagt gccgtatgtg gtatttaatg tcacaggact gaatgagatg accaaaggaa 480
tgaatagaag aagagaaagt tatcatgaga agaagcanaa naaggggtca taangagact 540

```

ggttcatggt aactttttaa ggaaattaan a

571

<210> 7133

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7133

| | |
|---|-----|
| gagaaagagt ctcactctgt caccaggct ggagtgcagt ggtatgatct tggttcactg | 60 |
| caacctccac ctcccgagtt caagtgattc tcctgcctca gcctccagag taggtgggac | 120 |
| tacaggagtg caccacacct ggctatTTTT tttttttttt tttgtattt ttagtagaga | 180 |
| tagggtttct ccatgttggc caggctggc tcgaactcct ttctcaagt gattcacctg | 240 |
| cctcagcctc ccaaagtgcg gggattacag gcatgagcca ccgcaccag cctgctttca | 300 |
| ttgtattcta ttggtcaaaa caaatctcag ggccagctca gatataagga gaaggaagga | 360 |
| gactccacct cttgatagga aaaacagcaa agaattgtgt gctgtcttca atcacagcta | 420 |
| ttttaattcc acagtaacag ccttgactg gtctccctac tttaatcctt aatgccttat | 480 |
| agtcaattcc ccacacagaa gccagangag ctttttaagg acactttaat gngaagaatt | 540 |
| ttagaaggaa acnncccccc cccc | 564 |

<210> 7134

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7134

| | |
|--|-----|
| aaagacattt ttatacattt ttttagtagag atgcagtact gccatgttgc ccaggctggt | 60 |
| cttgaactcc tgggctctag caatcctcct gcttcagcct cccaaagggt atagagatta | 120 |
| caagcatgag ccaccatact tgcccattga ttattttcct ttaaactctg aagtcacgag | 180 |
| aatgtgaagc cctgagaacc ggaactgtga agaaaatgta ttgtcactca tgtgaaccag | 240 |

aagtgaaggg gtgtatgaag ctttgtgatg gacacaaagt gttgttgccc ctcctgatgg 300
 gactgcaaag ctgggatgca agttgaagcc ccatctggac tccatgccct tcctgggtga 360
 aagcactgga gcagacatgg agccagggca tgcttcctta tgaatttcag taactcgtac 420
 tttcactcct tcaagaaaac atgtgaggtg tttttgnttg nttgntggtt tatgntttaa 480
 ggnttttttg tggtaatggt ggtgggtggt ntcctttctt 520

<210> 7135

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7135

ctaaagtgga gttctgactt gtgttgacgc catcacgcag agcctcctgt tcctgcctgg 60
 agccagctgt ctgtcattta ggagtgtgaa atcaattggg cttcagagat gtaaaatccc 120
 taggggcaaa attaaaagtg acccagatcc aagccacgt ggtcctgtca ggaacacgac 180
 tctcatatgg caagtttcaa agatttagtt tcaaaattcg ggtttcttat tttaaaaaat 240
 atgcagttgt ttgacattag atctgacaga caaattatag cttcagcaat aaaggctttt 300
 aagattagaa atgaaaagag aaattactta tatattaaaa aaagaaaaaa cccacccagg 360
 cttgagtttg gaggcatttg taggcgcgtg cgtcactctt tcttcctgc aaatataagg 420
 ggctccatca gctgatgagg ccgtaaatag agaagcgagt tacatggaat ttcgaggaaa 480
 gaaccagtgt gctggcaacc tttggaaatc anggtgatgg anccggtcag ttggttgcac 540
 tggtttaaac tggggggggtc cccttgg 567

<210> 7136

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7136

ctccattctg aaaatagcag gacatttacc tcttaaataa acttagcatt tagaggtaat 60
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 tggagtctgc agtgagggga gatgctggga tagccatttc catggctctg ttatgcaagc 180
 acaaatttca tctcctagat ggacttcctg gttttctctt actgcagtaa cactggcctt 240
 cccttctcta attccttacc ccagctgcgg catccctgtg ttaactcagg atgccaagt 300
 gccctcagat tacacttctc cagatagctg aatgagtctg ctttactgt gactgggacc 360
 tgaatgacct gcagtcaggg ccagagttg ggactctata ctaccctggg ctctggctg 420
 taggtttgta gtagccaccg gtaataagcc aagggttagg ctcttgtttg agtttatggc 480
 cccctggaat tttcaggcat ctcgatgca gcggaagggc anacngatgg attcnacagg 540
 ttggttttta aatttcacc 560

<210> 7137

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7137

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 aattgtctgt gtttcctttt taaatcaatc tgagcccttt tgatagtatt tattttccat 180
 gtcataattt tttattctat ttgcatttt ttttaacttg tgatttatgt gagtaccatc 240
 agactgtttt aaataagttt cacagcttgg aaattgccag accacacaga gtataaattg 300
 aaactgaaaa tctatgaggg agggcctgtg gtttaagaatt cttagaaacg ttttcctcag 360
 gcaagaacag gtcaagacgt atttgcacc tctctactga gaccacagtc ctttgagtgt 420
 ctcacgttac tatggtatct ctaacttaaa tggacccaag accctgctcc tgctcccaca 480
 aggcagttga accccaatcc tttggattac caagaatctg caggagcccc nanggccact 540
 tgencagnca attcctttcc ntttcag 569

<210> 7138

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7138

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ctaaccacac tttcagtttg tttctacagt acttacagtg agttgctggt gtattttcttc 60
tctgttcttt tctctctata tatattctta ccttccttcc tgcattgatga atttgacctt 120
ctagattttt ttttttttga acaatccagc ctggttgtga caaatggaga aagagagaga 180
agatcttaat tgtgatataa ttgacctttc acctttgttc actcccactt atttatttgt 240
ctttaatatt gttatgggta gttctttgtt actgtttaa atccctgtt ggatttttct 300
cttttgagac agatcttccc acgagggttg tatttagcca ccagcttggg aagtctaggg 360
tcgagaggat ggctctcatc agcagcagta ccattcaggt ccagcagagg gatcggatcg 420
tgattcactg tgccctgggc gtcttcagg tctctacagg gtggccttct gatgatctcg 480
gcctcctgat tccttagact atttcgacat ccttcctttg gttttccaac cttactttta 540
agttggttcc ncagg 555

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<210> 7139

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7139

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aatttatagt caggctccttg ttctgtgtgg cccaggctgg agtgcaatgc aatcatagct 60
caatgcagtc ttggactctg gggctcaagc aatcctcctg cttcggcctc ccaagtagct 120
aggactactg acaagtatta ccactcctgg ctaattttta atattttttt tgtaaagacg 180
gggtctggct ttgttgccct ggctggctgc gaattcccgg actcaagcaa cttttctgcc 240
tcggcctccc aaaatgctag gattatagga ataagccact gtgcctgtcc aaaactttat 300
ttttaatgac aaaacctatt ttctatagc tctgcttggga atgctgtatt taccctaagc 360
accagttttg gccctagctg gcctgtatac agcttttaggt aggctcttga tctagttttg 420

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ctataggcag ggtagatctc agtatttcat attttccttg tggcagagac agtggttaacc 480
 tttctctcat ggatagcgga ttcattgaga cagatttaac taagaactnt gatgattata 540
 cccgaacttc aaatggatc 559

<210> 7140

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7140

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 cagaaagtgc tgtgggtgaa cccagagtct cagggagcag aagccccct cgctggcttt 180
 cttcacgcgg ggtcctcggc aagctgctct gcactgcgga gaacgtgcgc cttgtcctca 240
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 cagcttcttc atggtaagga cgggtgcaac agggatggca ttgttgcaact gtcccacgca 480
 gcagcgcacc acgcctgttt ttaaaacgtt gcttgcaact tttgcttgca agaagtactt 540
 ccagnccaa ggcaaaatgt tttc 564

<210> 7141

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7141

caggaggaat ggacaatcca agttttataca gtgggctgga aaaagaaaac actgaaaagt 60
 ctaaaagcac aaaataaaca aagctgggag ggaagacagt aagagttatt tgtttctaatt 120

tcattctgaa acccaaggct tgtatttacc agtcctttct gctaaagtca tccagctact 180
 gaagaggaga gccttggaagt aaagtctgga ggaaaggtag ttgactgata aactgtccta 240
 caggtgacag tcaaggagag aagaggtaga ggtttggtgg ttaatgaata agttcctgac 300
 tagccagctc ctcttcttct cttgacttag atcaaccaat gtagatgcga tgaaaatcat 360
 tggcaccaaa agcagcatta cacttgggac atttgcgctg gcgggtgtca tagcgtgtct 420
 tcacacactc aaagcagaag acatgaaaca cttagtaaga acagcatcct ttttacgcat 480
 gttacagcac ggacaggta accgtgcctt ggaatcctta atctnttcat cagaatctta 540
 tacacttggg acattggcnt gggttnt 567

<210> 7142

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7142

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 actgcaagct ccgcctcctg gattcatgcc attctcctgc ctacgcttcc caagtagctg 120
 ggactatagg caccaccac cagccccggc taatTTTTTg tatttttagt agagatgggg 180
 tttcaccatg ttagccagga tggctttgat ctctgactt catgatccgc ccacctcggc 240
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 tctagatata caatcatgtc atctgcaaac agagaagact tcctctcttc ctgtatgggt 360
 gccctttatt tctctctctt gcatgactgc tctggtaagg acttccagta ctatgttgaa 420
 ttgaagtggg aagacaggac atccttgnct catgccggtt ttcaagggtta atggttccag 480
 cttttggcca ttcaagttca atggttgctg ngggtttggc ataaaaggnt ctaataattt 540
 gagggatggg ccctcaaan 559

<210> 7143

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7143

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ctntcagaac ccaaaagaac agcacacgga tgaaccaa at gtgaggaaag cagctgtgat 120
at tttgggtg gagagaaaca caagggcaat ttggcacaac gctgctagat actgnggggtt 180
tacaatcaac cttttcattc ccaagctgta caaaaaactc tctgtttcctt gttacacgcc 240
tgcctgctcc atgctgaagg agacttcggg gtgctttag ctgagcagaa tgtctgtaat 300
acacgtagat ggatagcaag aggagttaa atgctggctg ccatcactca ggtctgggtg 360
ctcatgacct ccaggttg cccacattc ctcat tttcc ccatcctgaa actgctggct 420
gcccattgagc gaagactgac tgagaactgn atccgacatc cgggcaanct taagtgttt 480
tccagccncc agactcattc tggcaagttt tccactgtac ataacattgn cnnttgtttt 540
gg 542

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<210> 7144

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7144

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gatagtgtg aattcaacct atgttttcct aaagagattt ttcttatttg aacctaggaa 60
cagtattttc cattgcacag ctttccgga tggtagcaaa cagtataaac ccctataaaa 120
cagggcaaca ccggttaaccc cttcgtgggg ctgctgcaag ggtgacacag catcagcctg 180
agacctcctt tgaaaagctt ggaataagaa agcacccaaa cagcacaaga accacctgct 240
ttcttccaac tctgcaagca cagctcattt actcacctga ctgaagtaac agtgtaaaag 300
acaagcgttc aggtaagaag ctgactggac cagtttgaaa aatctcaca aattattact 360
gttcaatgca gcaaaagcct gaacagcaaa tttcacctca gatgagtttc taacagcagg 420
atggaactgt tgtacttctc tgtaattaa aggagagaaa aggggttgga atgttatttt 480
aaataagaca aaattttcat gaagatagat ctgataaata atagatttca ctggnccan 540

```

ccannggntt acacctgtaa tnccaaa

567

<210> 7145

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7145

| | |
|--|-----|
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| gtttccaaat aacatacaaa tatttagaaa agattgtttc tcagatcccc aaattcattg | 120 |
| caattctcaa gctgtgttga gaggattgac ttcaaagaga agaaaagtaa taattaaaaa | 180 |
| aatgcgacta tgatttttta aaaataaaaa agtctttttg gatctatgac agaattatgc | 240 |
| cataaaaata atagctagca tttagaaaac actttctatg tgtcaggcag tgtgctaaaa | 300 |
| gccttgtgta gattttttca tttagacctc aaattaatgt gtcattatca attagtctcg | 360 |
| atttattggg gagaaaatgg aaacttggaa aaattaggga actagcaagg tcacctaaaca | 420 |
| cataaccaac ttaaggacaa ggagtctaaa aaacagagtt gggtttttta atncaaaggg | 480 |
| cacagcctnt taagcataat ncccatatat tgnttggggg anaaaaccgg atagttgggg | 540 |
| ntaagagcct atttcctatc cagctg | 566 |

<210> 7146

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7146

| | |
|--|-----|
| gggctgttcc tttgggtttt attacatggg ggggtcggac acagctgaga agcaaggacc | 60 |
| catccccgga agtcaaacac aggaggggccc ctggctcagc cgccataccc actctccccg | 120 |
| ggcagttcct gagtcctcca ccgcccctgc ccagccccct ctgctgcctc tccccgcccc | 180 |
| ccaggccagg cgctgggcca gcaatgcaaa tggctggggg tgggatcacc aaagagaagg | 240 |

ccaagccaac taccctact ctgccaggcc agtccccac aacctgcac cccaatacct 300
 gaatctccat ttgcaaacac agtggtatgc ccaggggtcg ggctgggtcc ttcccatccc 360
 agggcagctg aaggtagggcg gccctatata ctgcctgagg gccttcaggg actttgctcc 420
 tctgtgcacc ctnacaacaa ccctgtgagg taagtggggt gggaagagt accccctgga 480
 ctaangctca aggaggcaat gtgaccgggc caggaaggac cattcacat gcacaaggga 540
 acccgaaaaa gggacccaag tgcccgaaaa aacacct 577

<210> 7147

<211> 460

<212> DNA

<213> Homo sapiens

<400> 7147

gagacagagt ctcactctgt cgcccaggct ggagtgcagt ggcgcaaact cggctcactg 60
 caagctccac ctcccggtt cacaccattc tctgcctca gcctccanag tagctgngac 120
 tacaggagcc cgccatcacg ccagctaata ttttttgat ttttagtag agacaggnt 180
 ttaccngtt agccaggatg ggctcgacct cctgacctca tganccgct gcctcancct 240
 cccaaagagt tgagattaca ggngtgaggc gggaggacca cccgaggtca gaagttcaag 300
 aacagcctgg ccaacatgat gagaccccat ntctatataa aaaatgcaa aaaattagcc 360
 tggcatggtg gcacacacct ggaatcccag ccacttgggt ggntganaca ggagaatcac 420
 ttgaaccng gagggagaan ctgcangagc caanatcacn 460

<210> 7148

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7148

gagacagtct tactctgtca cccccaggct ggagtgcagt ggcatgatct tggctcactg 60

caacctccac ctcctagggt caagtgattc ttctctgcct cagtttccca agtagctggg 120
 actacaggca cgcaccacca cgcctggcta tttttttatt tttattttta gtagagacag 180
 ggtttcacca tgttgccgg gctggtcttg aactcctgac ctcaagtgat ctgcccacct 240
 cagcctccca aagtgctggg attacaggcg tgagccactg cgccccgccc actgtctttt 300
 tttttttttt aaaggacctc aggtgattct gatgcacagc tcaggttgaa agcactgaac 360
 taaaggaagg agccttttga tatgcattca ggaagcagcc aacctaattgc aatcaagaag 420
 agatagtacc taactgtcag ccttggtgct aagtgaggaa gagataattt ggcaaaccat 480
 ggaaacccca cacaacacac agagctttta tctagagcaa ggagacngac aacttcccaa 540
 actacagtca gnttccaana gccttacacc ntttatgggc t 581

<210> 7149

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7149

gagatggagt cttgttctgt caccaggct gcagtcaat ggcacgatcc cggtcacta 60
 caacctctgc ctcctgggtt caagtcattc tcccgcctca gcctcccgag tagctgggac 120
 cacaggcgtg caccaccacg cttggctaatt ttttgtattt tagtagagac agggttttgc 180
 catgttgacc aggctgggtc tgaactccta tgacaagtga tccacccaac tcagcctccc 240
 aaagtgctgg gattacaggc gcgagccacc atgcctggcc cacaattgca agctttctaa 300
 aggaactgct gctcaaagag gggttcagg gcctatctcc ctgtcaccag gttttggctg 360
 gaacaaacag taagtctgcc tggcagcatt gagttttctc aagcaggaac ctacagaggc 420
 tggagtcac atccctctgc aggggctaatt gaagttggga aggttcttg aacttctctt 480
 ctaggacaca anctggcgca ttcangtgat ggagcattgn ccatcttgct gnttntgggc 540
 ccgggttgta agatcctctt aaagnaangc ctcctttggc tcacc 585

<210> 7150

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7150

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cctttctctc gaggtcacca tgtgaggact cagtgttgtg gagccactag aagctgaaag   60
gggcagggaa ggaaatctcc cctagagctt ttggggatta cggccctgcc aacaccttga  120
gttctgacat ctgggctctg gaactgtggg agaatcaatt tgtcttcagc cccgcagttt  180
gtggcaattt gttacagcag ctgtaggaaa tgaacacacc agccacctag aaaaccacca  240
gttcagatgg gtgggtcaga ttccaactcc acctgaaggg ataattctag ttttctccct  300
cctcatattt tcaactccgt tttctgacaa gaaacctggc ttctgtgatg cttaatagat  360
tgacttcttt ggtcagtccc ccatatgaca gcgacctccc tgctcctctg ccaccttgg  420
ccctgagggg gctccctccc gacctccca ctggactcag ggcagtgtcc tgctctgggc  480
acacacccat atcctctgct cacctaattg ctagaccaca ttactcggag gggaagggaa  540
ggagaaggta nangaagaac aacctgggt tatgcccacc ctg                               584
```

<210> 7151

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7151

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gagacagact cttgctctgt caccaggt ggagtgcagt tgtgcaatct cggctcacta   60
caacctccac ctctgcgtt taagcaattc tttttttttt tttttttttt tttttttgta  120
gttgcaaggt ttaatagagn gaaaacagag ctccataca aaggaggag acccaaagag  180
ggttgccatt gccggctcga atgcctgctg ngctctcagg cgatagatga ttggctattt  240
ctttacctcc tgtttttgcc taattatcat ttttaacgagc tctntttgct acctgattgg  300
ttgggtgtga gctaagttgc aagccctgtg tttaaagggt gatgtggtca ccttncagc  360
tagccttagg gattcttaag tcggcctagg aaatccagct agtcctgnct ctcaatcccc  420
cctntnaaca ggaaaacca agtgctgttg gggaggttgg cccatgaccg tctaactgnt  480
```

tctctgctgaa ttggggcata anaggggntg ngcaattgan aattcctcng gagggatgcc 540
 tttgaggcct taacatcnaa catggggct 569

<210> 7152

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7152

cctttgaggc acagtctcac tctgtcacc aggctggagt gtagtggtgc aatctttcag 60
 ctactgcag cctccgcctc ctgggttaaa gcaacattca tgcctctgcc tcccagatag 120
 ctgggattac acgtgcatgc caccacacc agctaattctt tgtattttta gtagagatgg 180
 ggtttcgcca tggtggccag gctggtctcg aactcctggc ctcaagtaat cctcccacct 240
 tggcctccca aagtgtctggg attacaggta tgcacatca caccagcta atctttgtgt 300
 ttttagtaga gatgggggtt tgccatgttg gccaggctgg tctgaactc ctggcctcaa 360
 gtgatcctcc tacctcggct tccaaagtgc tgggattaca ggctgagcc accgnacccg 420
 gccagttcag tggttttcaa actcgagctt gtagcancat aactgggggg ctttgtaaaa 480
 cctgatcgct ggccccaacc canggttttg attcaacagg ctggggaagg ctgaaaaatg 540
 ccttttaaca agttcccaaa gaagctt 567

<210> 7153

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7153

gtattttagt agagacaggg tttcaccatg ttggacagga tggcctcaat ttcctgacct 60
 catggtccgt ccaccgcagc ctccaaaagt gctgggacta caggcgtgag ccaccgcacc 120
 caggcactag cgttattaca aggaggccat gtgagccggg catggtggca ctactcata 180

atcccagcta cttgggaggc tgaagcagga ggactgcttg gacccaggag ttcaagacca 240
gcctgggcaa catagcgaga cccactgca aaaataagga atgccatgtg aaggccacac 300
agacacatag ggtagatggt ttcagagact ggagtgatgc agcagcagcc aaggaaggcc 360
aaggattgcc aggagccacc agaagctgaa gagacaagga aggatcttcc cctggagtcc 420
tcaaagggag tgtggcttgg cctatacttg gatttcagac ttttagcctc cagactattc 480
tggtgcttta agccactgat ttgtggtaat ttgctatggc aggtccttac tctggctatg 540
ggttacacat ncaacaagtg ggagcccaag ggatttgaat caggccc 587

<210> 7154

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7154

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caagctccgc ctccagggtt catgccattt tctgcctca gcctcccag tagctgggac 120
cacaggcgcc cgccaccatg cccggctaata tttttttttt ttttagtagag acagggtttt 180
gccatgttgg ccaggctaata ttttgtttgg ttttcttttt tttttttttt tttttttttt 240
tgntananac anagtttcac catgttggcc aggttggctt caaactcctg acctnaagng 300
atctggctgc cttggcctnc caaagtactg ggattacagg catgagccac catgcccagc 360
caaggagtca naattcttaa atggcttact cagttggata tatagttgag ggcanaaata 420
aatttattaa tgaaatctnt gaccaaaaca aaccaatntc canaanactn tgggccncca 480
ccccacatta g 491

<210> 7155

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7155

| | |
|---|-----|
| aatttttagct ttgatgacaa aaacaatgct ggaggagagt gagagcacca agttgaaccc | 60 |
| acgtggacca gctttgacga tgaagctaca ggcagccaag tcaactcaca catagagaaa | 120 |
| gtggaaaaag aacagaaaag caggagacag aaacaaaaac atgcaggaga ggggtgattct | 180 |
| gttccatgat cttggctcag tgctccaggg ttcctaattgt ttcagcaaaa agaaaatcac | 240 |
| tgtaatgaaa tgtaatgaga ccctttgaca ctgaggaagt gacaactcag gcttggcctt | 300 |
| ctaccacaca cctataatct gtgacttgca acagaacttt tcccgaagag cgcagtcctc | 360 |
| cctgagcaaa atggctaggg cctacgccgt gatttgctgc tctggaatgg gacacacatg | 420 |
| ttgctaatacc ttgcaaaacc agcttgaaga accattttcc tncctgagaat tttcttctgg | 480 |
| tcactgctaa tttnggctac ttaagtnent tggttcttct tcactttaag taaatatctc | 540 |
| tcgagttgat gtgccaaacc tnt | 563 |

<210> 7156

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7156

| | |
|--|-----|
| gagatggagt cttgctctgc tgcccaggtt ggagtgcaat ggcgcaatct cggctcactg | 60 |
| caacctccac ctcttgatt caagctgttt tctgcctca gcctcctgag tagctgggac | 120 |
| tacaggtgcc cgccaccacg cctggctaatt ttttgtatct ttagtagaga cgaggtttca | 180 |
| ccatgttggc caggctggtg ttgaattcct gacctcgagt gatccgctg cctcagcctc | 240 |
| ccaaagtgtt gggattacag gtgtgagcca ctgcgcccgg ccaaaatcag gaaatctttc | 300 |
| ccaaaacatc ctgtatatag caacactcat aactactact ttatggcaga ataattggacc | 360 |
| cgattacagg ttcacatgga aaaagttgat atttcagcca cgaccaaaat ataaacagga | 420 |
| tttttcataa gggagtaaaa tggngnggtc ataaccgaga taaggtggng gggtcactctc | 480 |
| tgngctgaga aactttatct tactagtagg aaacatagta atccctacan tcattaaaag | 540 |
| gatgcctgaa gaactt | 556 |

<210> 7157

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7157

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atatttattt ttatttttga gacacagttt cactctgtcg cccagcctgg agtgcagtgg 60
cgtgatcttg gctcactgca acctccgcct cccaggttca agtgattctc ctgcctgacc 120
ctcccaagta gctggtatta caggcacgtg ccactgtgcc tggctaattt ttgtattttt 180
agtagagaca gggttttgcc atgttggcca gtctggcttc gaactcctga cctccggtga 240
tctgcctgcc tcagcctccc aaagtgtttg gattacaggc atgagccacg gcgccaggct 300
gcatggtcat tttttaggga gctgggaaaa ctggacatgc cccaagccc cagggtcttc 360
caaatccgat tgcagccccc acatggccaa tgctgtatca gcaggtgggc ccgggaccct 420
gctcatecct tcagccccc atgnccttg aaccttgccc gggggcaagt gccccctttg 480
atgatctagg taacatgaen aatcgnttg agancctgggc aatctgggtt aacttaaacc 540
ttttctaaga cn 552

```

<210> 7158

<211> 494

<212> DNA

<213> Homo sapiens

<400> 7158

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gagacggagt ctctctctgt cgcccagggt ggagtgcagt ggcctgatct ccgctcactg 60
caagttctgc ctcccgggct cagccattc tcctgactca gcctccanag tagctgggac 120
tacaggcacc cgccaccacg cctggccaat tctttgtatc tttagtaaag atggggcttc 180
accgtgttag ccaggatggt ctctatctcc tgacctcgtg atccgcccac ctcggcctcc 240
caaagtgtg ggattacagg cgtgagccac ggcgccggc ccctcatctc ttaaaataaa 300
aaaggttgaa ggagttgggg gagtttgat acagaccag ggagggcgcc ttgtggagat 360

```

ggaggcagag atgcggctga cgcttctcca agccaaggaa catcaaggac gccggccacc 420
 agcaggaact ggganaggcc tgggcaaate ccccgtnagc cttangangg accaancctt 480
 attaanacct tnat 494

<210> 7159

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7159

gagatggagt ctcactctgt tgcccagact ggaatgcagt gttgcaatct tggttcactg 60
 caacctccgc ctctgagtt caagcgattc tcttgccctca gcctcccgag tagctgggac 120
 tacaggcaca caccaccatg cctggctaata ttttttatat ttttattaga gacagggttt 180
 tgccatattg gccaggctag tctcaaactc ctgacctcag gtgatccacc cgcctcagcc 240
 ttccaaagtg ccaactgcacc tggccagcat ccaactagctt ttcatcagac catgaaatgt 300
 ttgggtccag actgctcact ctttccagag ctgcactgga aatacactat tctgaacggc 360
 ccaagttcct ccggagtatt cctctgatgg ggcacaaacc tgggtggacca caagcatgct 420
 ggtaccaagt gcttttttatt ttacaagagc cattctgntc cntttngggc gaaccggggc 480
 ctgnttcatt gttctnggct aacacaggcc aagtacactt ntnacta 528

<210> 7160

<211> 524

<212> DNA

<213> Homo sapiens

<400> 7160

gttttttaaac attttacagc cattatccaa cagacagtaa agcagtggac cagttgctgt 60
 gtgggtataa agcaaacggt ctctgggctc ctccaagctg tggatatctc tggccattat 120
 caatagctga ttctcacttg tcctaataaa gtactcagtg caggttagcc tccttctccc 180

ccgccagctt ctcttccact tccccacacc gtacatgcct ctccctttct ctctataact 240
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 gatcccagct gccttttgaa cagagcagac atcctttaca gagacagggt gcctggaggg 360
 gagaacaggt aggggcacac tgagatccca cagcaacctg agagattctg ccccgtagacc 420
 tgctggcccc cttcanggca cttnctaatt tcaatctttc attaantaag gcagcttaga 480
 agctgntttt cagcttgnaa aagnccaacc cggcangaat tctg 524

<210> 7161

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7161

aaacccaaac ttgctcaaaa aagcagtcag aagccattag tccttacctc ccacatgggt 60
 ttaattcctt ctttgaagag atggaagtca ctgtggcctg tcaggtcccc aggacgtacc 120
 atgtggctat aaaacctcca gaactgctcc acctgcagag agaagacccc agagtaaaaa 180
 acatgtgtct tttaactttt tttgaatgca tccaagggt gagatttagt taagaacata 240
 agcatggaag acactatact acaggctgtc cttttcagag gactcatttt catgtgtggt 300
 gttgtgaggg aagacatatt agaggaaaa cataccatct agtttgaaa aataaaaaat 360
 gtaacattcg caattcaaga ataaaatctt tggtagagaa tgcaagcctt aaccaggagc 420
 tttaagtggg gaaacctatg taatacgcac ttttccactt aagctgcagg gtagcattac 480
 atgccgnaga ngacccggtt tttgcncatg gnactnttan ccctgaggat gaaggggacc 540
 cagctaactg a 551

<210> 7162

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7162

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ctgcttcttt ggagagccct gagacaactt tcttcccaa atatccatt ttattgtttg 60
ttgaaatatt ttatttctaa ttttattatt tttgaacagt taaaaactca aagtacaatg 120
aagtttacia tgaaaaggct cactcctggg atccttatcc cccaggtatc tagttctgct 180
ccttgagac taccaatgtg atcaggttct tccatatatg tcttcagaga cagtctacca 240
tatacaaaca aataggaata catacacatt ttttcttctt atacatcaat tgtagcatgc 300
catacagttt gacaccatgc ttttctcaat aaacattatt atgccttaga gatcttttca 360
tctcagtacc taaagcactt cttcattcct ttttccattg ggcaaattaa gttcaccaat 420
cctctgnaat ttattatcta aaaggngaga catggagaaa tgaaagccta ttaataatat 480
ncagaacagc aggttttaac tgggagggtc aaaagccaag ctatggtatc tacctttggc 540
gatnttaagg tgc 553

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<210> 7163

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7163

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aaaagacaga tacacacaca tataacaat acggtttccg aggagagtga gggctccatg 60
cttgtgagag aggaggagga ggaatatgcc gaataaccct caggtttctc ccagatttga 120
acatgttgta ctgtggcatg aggtcagcag agacttactc cagccctgtg aggctgaatt 180
ctaccctgac aaagcagtat cactgtaata tgaagcaaga ggattcaggg catgttggca 240
gctgtacaga atgcctgttc tagaaagtaa tggcaattcc aaaacaagag atctatggtg 300
tcacatgaga taatcttcag cccagttaag caataagcac ccaaaatact ttgaatccca 360
aacacaggca gctcaaaagt ttaatggtag aaaagaactt ttctccttga ccctattttg 420
gtctggagga aataatcagg aagaagaaaa ctgggaagaa tcatttggtt aatttgactg 480
gatcattaac cacatactgg atctganctg actggtinctg ggcaattcca nctacttgaa 540
gaacccaac cncctttggn 559

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<210> 7164

<211> 467

<212> DNA

<213> Homo sapiens

<400> 7164

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gagacgaagt ctcgctctgt caccagact ggagtgcagt gacacgatct cggtgccacc 60
acacctgcct aatTTTTgtA tttttagtaa gagacagtgt ttcacatgt tagtcagcct 120
gatcttgaac acctgacctc gtgatccacc cgcctcacc tccaaagtg ttgggattac 180
aggcgtgagc caccgcctgc acccggcctg aatactcttt gagccaatca aatgttataa 240
attaaaatca cactaactca taatcttatt ccttaaaatg agtgacttac aggtgtcata 300
acaggtgact tctcactgct tggagaatcc actgcacaga aaaaaaagaa agaaaaaaaa 360
gatatgaatg tgagtatttt ctaattggct ttggttttga cctatcaagt ggagtatagt 420
tcctacatca ctttnaacc aatttggggt gnggggtgnng gnnngng 467
    
```

<210> 7165

<211> 504

<212> DNA

<213> Homo sapiens

<400> 7165

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gtagagacag ggttttacca tgttgccag gctggtcttg aactcctgac gtcaggtgat 60
ccacctgcct gggcctccaa aagtgtggg attactggca tgagccacca tgcccagcca 120
gtttagggat ttttctacct gagagtgtgt ggctctgttg tagccaggaa gctaaagcct 180
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cttactctca gcaaagtcag tattcccat gtcctactag aagagagaga gtatactttg 300
aggtccttgt aaaaccattt agtcccaaac tcagcttgag ccacaggtag ttgtcactgg 360
ctgggtccag ccagagagag tacctgaaga aatcactcag atgacagctg atcacttact 420
gtgtgacctc aggcaagtca cctcccttc aagcctnagc ttcctncact gnnaaatga 480
    
```

gaangctgac ttgacctggn ccan

504

<210> 7166

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7166

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gctttttaag ctgttttggt aaaaagacac aaacacacac attaatccac gcatatacag 60
ggtcaggttc agtatcactg tcctccacat tcacatcctg ctccacgaga agtcttttagg 120
ggcaataaca tacatggagc tatcatctct gtaataatgc cttcatctgg aatatctcat 180
gaaggacctg cctgagggtg ttttatagtt aacttatttt tataagtaga agtggtacat 240
tctaaaataa caaatatagg atagtaagta tgtcaaccaa taacataatc tttattatca 300
tgattagcat tatgtaccat acacaattgt atgtgctata ctttcatatg actggcagca 360
caatagattt gtttatacca gcatcatcac gcacatgtga gtaacacatt gtgctgtgat 420
gttatgggca actatgatgt cacttaggaa taggaatttt aattctatta taacntatga 480
gaccacggca catatgtaac ttggccttan cgaacatctt atgtgngct gactaaagat 540
cacccaacca a 551
    
```

<210> 7167

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7167

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accgcaaact ggttccttcc acctgagtat cctaccatt atgggctttg aatgtgtatg 60
ccctgcctca gacctttgag attaggttct aaacttaagt tcacaaaaga agcatcacct 120
ccatagtga tccacttttc agcatgaagg gtgaaatgtg aaatgatcta atctgcttgt 180
acgcaatgcc taacgtgggg ttgcatagat gtgatgctgg atggttttgt aaccattcct 240
    
```

ggaggcaaga ttcctccaca accatgttcc attactctgt ggccatgttc taccttgctt 300
 tgacagccta gcatagaaca ttttggcagt ttcagatcct gactagatgt ctgctggagg 360
 agttaaagc tgtagtcact gggacagatg cgtggtgagg ctcccggctt accatgtctt 420
 catgtgccga agctttttca tttcctctct ggattcaagt ggaagttaca agccttnaat 480
 attaccctca ttatactgag gctgananca atcagtttac ntcctagaaa ttncattagc 540
 ccttc 545

<210> 7168

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7168

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 tcactactgt ggggtgagcct ggacggacgg gggctggggc tgcccgtggc agcggcaagg 180
 gatgctttcc agagacagcc accacgcagg agggaggatc accccaggca acccagacac 240
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 gcggccatgt ctgctgggac ctgggtgatc cagtgcgtgc cacagccaga agcaccattc 360
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 gggggctccc ctgagggtca gtgagggcct gaccccaggc angaactgcg tggacgcttg 480
 tcttcaaccg ggacaaacct ggccttcggt tgcntntgcc taatgnattg ggttccanac 540
 tgggcccgga naaacctggg tgggaaactt ggg 573

<210> 7169

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7169

| | |
|--|-----|
| ggagacaggg tctctctctg ttgccaggc tggagtgcag tggcacgac atagctcact | 60 |
| gcacccctga cctcccaggc tcaattagtc ctcccacctc agcctcctga gtagctagga | 120 |
| ctacaggtgt gcaccaccac gcttggtctaa ttttttagtt tttttgtgga aagagggttt | 180 |
| cacattgccc aggctgggtct cgtgctcctg gacttaagt atcctcctgc tttggcctct | 240 |
| caaagcactg ggattacaga cgtgagtcac cgcaccacgc cctatgaaca ccgtcttact | 300 |
| gaaccctcac agcaacctta ggaagaggat gctgaggctc aggtggggta agcaagctgc | 360 |
| ccaaagacct gagccctccc accaccggc agtccctccc tggcgcggn accagcctac | 420 |
| cttcagcccc ataacattct gcccgctctac ctacacacg taatgggttg gtgaagaacc | 480 |
| cgttgcgggc cgcaaaattc ctttgaccng agagacaatc ttnccttntt ggacaccaag | 540 |
| ccgactgggc catgctggcc ttggcatggg ga | 572 |

<210> 7170

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7170

| | |
|--|-----|
| aataaatact caatatgcag attttcccct tttttctcac tggtagctac tgcaatgccc | 60 |
| agaagcactg gctctccatg ctgnggaaca tgcccaacac tacgctaggc aatgagagat | 120 |
| actgatgagc aaaacacact tgtggcctca tggaatgaat ggaaggaggg agatagcaca | 180 |
| taagtatttc aggtagtac aagtgtatg gaaaaaaacc caagacaggg tggacacagt | 240 |
| aacctcttca gatgcggcgg tataggcagg aaggcttcct tgagatacca ggcaagctac | 300 |
| gagctacctg atgaggaacc agtgggagaa catctggttg cgagggttg gccaggggga | 360 |
| agggggctct gacacaggaa caaatttgat atgcttgaaa atcactaaga tcaactgnggc | 420 |
| tggaacacag tcagagagaa aaatgtgtan taaatgaggn gggaaaaaaa agcnnggccc | 480 |
| attcaaataa aaacttttaa ggccatggaa agnaatgccg gaattgccct aagtnccaat | 540 |
| ggggaag | 547 |

<210> 7171

<211> 352

<212> DNA

<213> Homo sapiens

<400> 7171

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aaagagagca ggtcttgcca tgtggcccag gctggctctcc aactcctggg ctcaggtaac   60
gtccacacagn ggccttgcaa agngctggga ttacaggcat gagccaccac ccctggcaca  120
ttttttaatt ttttgtanan atagggtctc gccatgttgc ccagtctagt catgaactcc  180
cgagttcaag caatcagccc accttggcct cccaaagngt tganattaca ggtgttgggc  240
caccacactt ggcctanaaa tcattttcca ggcacggngg ctcatgccta taatcccggc  300
acttttggga ggcgaggcgg ntggatcacc tgaggncana agttnnagac ca          352

```

<210> 7172

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7172

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gagacctctg ccactccttg atgcaggac caaagtcacc agtcagagaa caagtcattt   60
ctctacctca gccaccattt tgttctaaaa ggnaacatag aacaaatgtt aagttttcca  120
aagtccagat ttatgatcag agttaatgag ctgaataatc agctgtaaga aacactgatt  180
aaaaacattt acatgagtta atttgtgtta ctgactttta ctagaatgta ggcaccctca  240
ccatgctggt gaggggtgcct aaaagaaaac catacttcca aactctcgct ttagtaactg  300
taccgcttac aaagagccca acagtagctg aagtttatta ccgttatgtt gctgtgaatg  360
ccaccaatat gtactgtcag acttgntttg ggtgaaaaaa acaactgcaa aaccaatttt  420
tttttctaac atctgatagg gacttgatga agccgctaaa tgctaggggt tacatttcag  480
gaaacaactt atttatggta tgggtgctat taatcccaaa ggnntcatg gngaaatacn  540
ggntttncnc                                     550

```

<210> 7173

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7173

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gtagagatga aatctcacca tgttgcccag gctggccccg aactcctgca ctccagtgat   60
ccacctgcct cagcctccca aagagctggg atcacaggcg tgagccaccg tgcaagccct  120
acaattttaa atacttaa atgttgtaagtt ttctgtttcc tgactgtact ctgatagatg  180
cagtacttgg caccagaatg tgccatgaga cagaccctaa aagacacagt tgtgcaactg  240
atttggttgt gttcctgtcc ttgtcctcac ctgtggttga caagaaagcc gggctccctg  300
ggctctcagg tgtgcaggac ttgccctccc agccttcccc acgggagcca ctgccccttc  360
agtggggtgc tccagacaag ggcgacatcc tgcgctttca gggcccacag aacactgatt  420
ttggtgaatg ccaaattctg gggccccaaa acaccatggn gggccaccag cnaaagnggt  480
ggctgacggc aagggatcat gccactgggn gtccaagtgc atnttgaact tgggcctgga  540
agttttgaaa ancctgcttg ngg                                           563
    
```

<210> 7174

<211> 524

<212> DNA

<213> Homo sapiens

<400> 7174

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gagacgtagt ctactctgt tgccaggctg ggggtgcagtg gcgtgatccc ggctaactgc   60
aacctccacc tcccagcagg ttcaagcgat tctcctgcct cagcctcctg agtggctggg  120
actacagggt catgccacca cacctggcta atttttatat ttttagtaga gacagggttt  180
caccatgttg gccaggatgg tctcgatctc ttgacctcgt gatccaccg cctcggactc  240
ccaaagtgtc gggattacag gcgtgagcca ccgtgcccg cctaaaggag taaattttaa  300
    
```

gtgttctaac cacaagaaa tatgtgaagt aacgcatatg ttaactgggt tgatttagcc 360
 actccacaat atacacgtta ttcaaaacc cacaggcatc acatcccatt tctcacccat 420
 gagtagaata aatcatagac cacatcacag caataaggng acanctgtgt cancnggggc 480
 aaggntaca ggacttacca ncaaaccatct aaggggctnt ttg 524

<210> 7175

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7175

gagacggagt ctgcttggt gccaggctg gaggcaatg gcacgattc gactcaccac 60
 aatctccgcc tcccagggtc aagcgattct cctgtctcag cctcccaagt agctgagatt 120
 acaggcatgc accactacac ctgtctaatt ttgtattttc agtggagatg gggtttctcc 180
 atgttggtca ggctgggtctt gaactcccga cctcagggtga tccacccgcc ttggcctgcc 240
 aaagtgctgg gattacaggc atgagccaca gcacctggcc ctatttttgt atttttaatg 300
 gagacgaggt ttaccatgt tggccaggct ggtcttgaac tcctgacctc aagtgatctg 360
 ccagcctcag gtgccaaagt gctgggatta cnggcaagaa ccaactgtgcc cagcctactg 420
 ncaagtatth ttcatatgan ggaaaaccca gacttcagag aaattaagga atctgtccaa 480
 ggcgtatagt caaggnatca gaatctggaa ctggagcctt tcaatccaaa gtccaagctn 540
 ttaatcttca ggccccactg gt 562

<210> 7176

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7176

ccccatttaa aaatatntta cagnggcata actttccctg tacaaatngg gtttaagaaa 60

caaaaggac aatngctaa tcaatgatga gcctttaatc caaccattat atatcccctt 120
 tccatcctta gatcccttga agagaccatt tagttaagac taccacagg tgacaccctg 180
 acctccttac caaccttgcc ttttagaggt gaccagagac ctgtgctttt ccaaagtact 240
 gttatacgtg taattagtat aatatcaatg tggggaaact ctacctttgg attttgagga 300
 ctctgctttt cttgaaaccc tctgggttag agactgttta ttcatatgca cctcaggaac 360
 ttgaggccaa gatgaagttc actgcttcct agtcctttgc ttgntctcct ggccattatg 420
 ttccaccttc attcaaaatg ccttctcttt gaagctgntt ataaccaag caacaccatt 480
 aaactnactg ggngcttaac tggntcfaat caccacnttt tccaagtcna cttttncctt 540
 ttttca 546

<210> 7177

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7177

atactgacaa ccaagcttta ttactttatt agagctgaac aagcatatta aaagttaggg 60
 catggaaggg aggaagcagg accagctcac gggctggaga tgaaccaaga agggttgtcc 120
 atgaggtgaa gctgggtcag agggagcagg catggtcgag gctgtggtta ccatctagaa 180
 ggagaaggag tagtggggag ggaaatcact gctcctgggt gcccaggaa atgtagtctg 240
 gctgggtggc cgcatggtac tcatcaatga gctcctgaac aacctcccta gacctgtcca 300
 tctcatcaaa gttgtccttg aacatgtcct ccttacggaa ctgctcgagg aaggcatccc 360
 gcttccgcag cttgtcaaac tgctggcagg aactttcaaa gagcgaggag atgctggtgt 420
 ggttggccat catgagcccg ctgaccgggt gggcccaggg cangtaggga gactttcttg 480
 acaggggcca cctggatctt gccgggnccc acnggatgaa nttggccact ttccgttccc 540
 ggntcttttn gggt 554

<210> 7178

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7178

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ccgagacgaa gtctcactct gtccccagg ctggagtgca gtggcgtgat gtcgactcac   60
tgcaacctcc gcctcctgag atcaagcgat tctcctgcct cagcctcctg cataactggg  120
attacaggtg tgagccacca cgctcggcca acattctgag attacttttt ttttcatttg  180
gggagacgaa tcccttacta gcagagctgt attgagggtt aacggtggta atgggtctcc  240
agggtttggt gcagtttgta ctcaacaagt acgtaattct ctcctttggt tgccccctgaa  300
tacaagagtg gtcttgtact tccctgcctg aacagtcac agccaatggc actccagtcc  360
ttgtcacatg gttccactct taggatgtaa attaggaggt accagcttga gaggcanaagg  420
caaaggcaag gttaagatgc agctgtgang ctgggcacaa tgggttcacg ccctataatc  480
ccagcacctt tgggaaggcc gaaccgagcg gaccancttg agncaaana gttcgagaac  540
cagcctggnc aacacgggga aaaat                                           565

```

<210> 7179

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7179

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aagagagaca aagttttgcc atgttgccca ggcaggtcct gaactcctgg gctcaagcga   60
tctcccacc tcggccttcc cgagtgtggt gactacaggc atgagccacc acacttagcc  120
tgtcggagtc cttttgataa taaggtagct tgaggagaca ggaaggaaac actaaagcca  180
gcacagggtg tcccggggca agtgcattcc aggccaggaa gcatacgagg caggatgtgc  240
tcggcatgtt caagacttca gggacaccag gggcagatgg aggatggcag agaatgggtga  300
gaggaggcca gagcaggcaa gaggccttta ggactctggc ttttactgag ggacatggac  360
gccgttggaa ggtctgagct cggaatgacc tgactgacct gtcttacagg gacaacttgt  420
ctgtgggggg acactggcan ggaagcttgg cttgtggcca cccaccggcc ggcactggca  480

```

acctcgtcct tgcctttcac aatggaccng gcntgggctg ngtgacccca gatncnganc 540
ttatngggaa t 551

<210> 7180

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7180

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aagcagattc ttgtagctga ttgctaggac ttgggaggag agctgagagc atgtcctatg 180
ggaagaaagg aggggaagagc cttctgccag agtgtctcag tcagcaggag ccgaggagca 240
tggcagccca ggctaaaggg tggcactctc tccaacacag ggcaatatga ggtctgtaga 300
agaggctagg aggaaaccgc acatgaggaa aaacaagcga ctcatggcat gttatagcga 360
ctccaccaag gcatttatTT ctctacactc accatgaaga caatggaagg ntatagaatg 420
tgggatgggg aagccggaag tcataattca tttaaaatcc cttctgggn ttaatatTTg 480
ganggttcaa tggnccggan aagaaccntt tnaaaanc 518

<210> 7181

<211> 487

<212> DNA

<213> Homo sapiens

<400> 7181

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cctgcttcag tctcctaaag tgagccacca tgcctggccg gaactcttgt tgcaagaaca 120
ataagcatcc actactgcag ctgaaaacat ccctgacaga cccatctccc tggatattcag 180
ggagggatgg actaggcaat gattcagaag tcatactgaa aagctgccct tttcctactg 240

gtgcccctgc agtctgagcc caagcagaca catacttcag aggtgctaca tttgtgctac 300
 aaagcacaga tccttcttga cctggaggcc agccttaccc actgagacca ggttcctgna 360
 gttctccagc atcacttccc tgtacaggga cttctggttg aggnccaaca gtccccactn 420
 tttcngggtn aaaccaggg tacatttttc aaaggcaatg ggtncataaaa atcccnattn 480
 ttgttaa 487

<210> 7182

<211> 532

<212> DNA

<213> Homo sapiens

<400> 7182

gagacacaat ctcattctgt tgcccaggct ggagtgtgtt ggtgtgatct cggtttactg 60
 caacctccgc ctcctgggtt cacgcgattt tcctgcctca gcctcccag tagctaggat 120
 tagaggcgca caccacatg cctggctaata ttttgggtga tttttagtat agacagggtt 180
 tcactatgtt ggccagactg gtctcgaact cctgacctca tgatccacct gcctcaccct 240
 cccaaagtgc tgggattaca ggcgtgagcc accgcgcctg gcacccatag gcaactttct 300
 tagtctgttt gtgtgtctat aacaaaatac ctgatttata aagaacagaa atgtatcaca 360
 gttctgtagt ttatgaagtc caagatcaag gcacatcag gttcaaatgt cctcttccaa 420
 ggggtgcctt gatgtgtcat ccttcanaaa ggacntgtgc ctcacgtgcc aaaaggagg 480
 acaaggaaan ctgcattgag ccnctttatg aaaggtggan ncnctttcca aa 532

<210> 7183

<211> 506

<212> DNA

<213> Homo sapiens

<400> 7183

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ttgcctaggc tggaatgcaa tggcatgata tgcactcact gcaacctcca cctcctgggt 120
 tcaagagatt ctctgcctc agcctcccaa gtagttggga ttacaggcgt ttgccaccat 180
 gcctggctaa tttttgtatt tttagcagag acagggtttc accatgttgg caggctggtc 240
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 tttatttatt tctcttggct gctttgctac tctcccacta gaaatcaact gcatgaaggc 420
 ccgggctttn ggttgctttg gttggnntaa ctncagtgcc tggaactgnc cctgggacat 480
 agcangnncc atataagatt gctgag 506

<210> 7184

<211> 183

<212> DNA

<213> Homo sapiens

<400> 7184

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 gccaaaggcca gtggatcact tgaagtcagg agttcaagac cagcctgacc tcangngatc 120
 tgcccgctt ggcttnccaa ngctctggga ttacnecnt ganccactgc acctggccta 180
 tcc 183

<210> 7185

<211> 430

<212> DNA

<213> Homo sapiens

<400> 7185

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 aagaaggngg ccatcatntg caagccaagg agagagaana aaccaaacct gctgacacat 120
 tgatcttggga cttctagtct ctanaattgn gagaaaagag atttctgttg tttaccaccc 180

attctggggt attttgttgn ggaaacccta gtaaacatac tatattaataa ttcttcctta 240
 tgtccatag aaatactccc aactttaatt tattcataat ccactttctt tagtttacag 300
 agtcctcata aaacacaatc tatacttgaa tgcagtgagt acactgcact ttgacctttt 360
 tttttttttt ttnttttttt tttttttttt tganatggan tctgggcttt gtcncccagg 420
 ntanaangca 430

<210> 7186

<211> 498

<212> DNA

<213> Homo sapiens

<400> 7186

ganacagtct nactntgttg ctaggctgga gngcaggggc acaatctcgg ntccctgcaa 60
 cctccccctc ctgtattcaa ggaattctcc tgcctnagcc tcccagtag ctgggactac 120
 aggtccgcgc caccacgccc ggctaatttc tgnattttta gtacatcctg ttgnacatcc 180
 tgttggccag natggtctcg atctnttgac ctcngatct gcctgcctgg gcctcctaaa 240
 gcgttgggat tacaggcatg agccaccgca cctggccana aaatattttt atataangga 300
 accagaaaaga catgccattt tcaaaaactgg canaattaaa tcctgaattt tcaaaatatt 360
 tcaaaaatgg ttttaaaaga gccactcact gggtttctc cngacattca tttantaagn 420
 gggcctatag catcattcca tttntggaa acagtgcntt ttaggaatca aactggctta 480
 ntaaaggggg gngccccc 498

<210> 7187

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7187

caaattacta gaattttatt agccaaggga tagcagctgg aggagaaata acaaaaaaat 60

acatcttaag aatccttaag tacagtgcatt atttacaatt taagtgtcat attttagaag 120
gccactgtcc atcagctcag taaatgtacc agcttctaaa gccatgatgc cataggtcca 180
tttgttgatg aaattcctac ccactgtcct cgggcattctg actctggtct ctgcactggc 240
atcaagagaa cgctgctcgg tggtttaagg ctaacacctt acagggtaac actgtaacac 300
tggccctgga gccaggtgct tttctccatg aaaacttcca ccttggttagc tcagccgaca 360
tagacaacac acaaagcgca gctctgcact tctgtcctta tcttcacaca gtgacatcca 420
caccaggtgg ccaaacagaa gagaaggcag aggccacaca agagctgatg ctgngcaatc 480
cttgggggac atccttcggc ttactggggg acnaanccag gttttggagn cttttccctg 540
aa 542

<210> 7188

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7188

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ctctacctcg cgggttcaag cgattctcct gcctcagcct cccgagtagc tgggactaca 120
ggcacgcgcc actggccaag atggtctcga tctcttgacc ttgtgatcca cccgcctcgg 180
cctcccaaaa tgctgggact acaggcatga gccaccgcgc ccagccccag actttttttt 240
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ggactacagg catgtgccac catgccaag ctaatttttt tggctttttt tttttcnttt 420
tgagaaacng gaatttaaac tgttgccaaa atggatgcaa tgggcnactg ggtcactaca 480
actcgcttct gggttaagca ttttctggct aagcttccaa ggactgggat acggggcctg 540
cacc 544

<210> 7189

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7189

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aagacggagt ctcgctctgt caccacgct ggagtgcagt ggcaagacct cggctcactg   60
caacctccgc ttccegggtt catgccattc tctgtctca gcctcccag tagctgggac  120
tacaggcgcc cgccaccatg cccagctaat tttttgtatt tttagtagag acagggtttc  180
accatgttgg tcaggctggg ctccatctcc tgacctctg atccaccac cttggcctcc  240
caaagtgtg ggattacagg cgtgagccac cagcccaga tatcccagc ttcttttaat  300
gccatcttac ctctcagcc tctcaaacc aaagccaacg tcttctcatt ttggtgctgt  360
cctcgtttgc ggaataacta atgacattta aaatcaaacg gtgatctgcc ttcctagaaa  420
accagcccc cacctagaga acacccttc cagcgtctg gggcccctnt ggnacctgna  480
gtctgatcca cgangaccgc gaagtgtatg aatccggcca aancgagaga acatggcttn  540
tacgnccttt                                     550

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<210> 7190

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7190

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acaatttctc atatggcaag atctgggagg gctttgtttc accitttttt tgaaggcagc   60
attactagaa ataagatcat ggttcacaaa gcttttgtcc tttagtact ttgaatgtat  120
catcccactg cttcatccc ctccattgtt tctgatgaga agtttgctgt taatctattg  180
gggtaccctt gtggcacatt gtttttctct tacagctttc aacatttcct ttcactttta  240
acatttttac tatgacgtgt ctgtttgtgg atatgtttgc attcattctg ttcacagttt  300
gttgagatgc ttgtgagtat agattaatgt ttgttcaata aattgtggat gtttttagcc  360
attatttctt tgaatatatt tgtgcttctc tttctctca cttatggta ttctcattac  420
atgtacactg gtgcactgaa aggcgtcctg aatttctctg aggctctggt tataattctt  480

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tggtctaatt tcttaatcta attcttcaat ttcnaatct aatttctaatt gggaanatgg 540
aattganggt gcataattct atggactatt tgna 574

<210> 7191

<211> 522

<212> DNA

<213> Homo sapiens

<400> 7191

aagtatggag gctcaagtat aagatgtaga tttttttctt aagctttaca aaaaaacaaa 60
ataaaacaaa aacctccttt tgcattccat agaaattgac agaaaagcac ctggccggaa 120
gagcggaaacg gtcggcggca cccccccag cccccacccc gcggcctccg tgggacggga 180
gagtctgcgc aggacggcac cgagggccac ctctgctccc agagctgtcc cctgtcccca 240
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tctctttcac acaccacagt tagttcataa aatttttttg ttttacattt tttacaccaa 360
tgtacaaaa aggtgggagg gaaggaggc tggcagacag tggattttat gcctataaat 420
ggggggacag ggaggaggac ggggggccc ggtgaacaaa aaccacacng tctctatgga 480
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<210> 7192

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7192

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tacagccgcc tgccatcatg cctggctaatt ttttgtattt ttagtagaga tggggtttca 180
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ccaaactgct aggatcacag gcatgaatca ccgcgcccgg accagtgtaa gcatttgggt 300
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 tcacacagta ggtacacaaat gcacatttgt ctagcaaaaa gtactggaaa gcagaagggt 420
 ggatagagct ctgcctgggt tcaaattccag gctntggcat ttactaactg aaanccttgg 480
 gcaagttgggt taacctctct gggcctgttn ctgactggng aaacagacng aanccttctt 540
 atgaggtgga ttaaagaccc aatggaatta atatnccn 578

<210> 7193

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7193

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 aaagtactca tattacaggc atgagccacc atgccctgct gtaaattgtt ttgaacagag 180
 ggtgaaatag gcttagggag gaacatactg agtctgaaat agaacatcca ggtggaggat 240
 cagccatcag tgagagctgc acaaagggtca tgattagagc attgactcag cttagagaag 300
 ggagtcagag ttcagacagc cacaggcaat tcctagagta agtgaagaga acaattttga 360
 aaggcacctg ctgaagaaaa gcaattattc attcctaaaa ggcactgccg atccttcaca 420
 ttgaacatca gaaaagggtca cttctgaaac aaggcttctg tgggacaaag aaaaactcta 480
 ttctggtctt aaaaatctca aaacccgacc cttttatggg aaggttcatt taaggnccta 540
 nttagaaaac cgttcncnga attggaac 568

<210> 7194

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7194

| | |
|--|-----|
| gagacggagt ttcactcctc ttgccaggc tggagtgcaa tggcgtgac tcggctcact | 60 |
| gcaacctccg cctcctgggt tcaagcgatt ctctgcctc agcctcccga gtagctggga | 120 |
| ctacgggcgc gtgccaccac acccagctaa tttcgtatit gtagtagaga tgggattitt | 180 |
| ccatgttgggt caggctgggt tcgaactccc gacctcaggt gatctgccc ccttggcctc | 240 |
| ccaaagtgtt gggattacag gcgtgagcca ctgcacccag cccatatatt catgttttag | 300 |
| ctcatgaata caaccaatit ctctgaagat gatggattct attaaaaaca ggtgtttgtc | 360 |
| acatgactgg ggattgtagt ttactgaaac acaaccaaatt taggtagaaa tcatgatcta | 420 |
| ataaagttag catgttaaatt atgnatctnc aattccagga tttccatgag acttgnagaa | 480 |
| cttctttttt ttttttttaa gaaacagcan gacattaaac ctttactggg ttttncata | 540 |
| agnctgggcc caccgttggg gcctcnattc caag | 574 |

<210> 7195

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7195

| | |
|---|-----|
| aatttcatct gtttctctit atatttttta tattggatac aaacaaatta acaattacag | 60 |
| actatcgcca acttataatg cttaaacttt atgatcaata gtaataaatt acacgagata | 120 |
| ttcacacttt attataaaat agggtttgtg taagatgatt tttcccaact gtaggttaac | 180 |
| atcagtgttc tgagcacatt taaggtaggc ttggctaagc tatgatattc agtaggggat | 240 |
| gtgtatttca tgcattttit acttacaata ttttcaactt atggtggatt tattgggaca | 300 |
| taaaccatc ctaagtcaag gagcatctgt atacatgaag ctaacattct attcctatca | 360 |
| gacagtgttg ctctaaagta tgtcactgca aaacttaagc cttcaagtaa aatgatcaga | 420 |
| tttgcatctt agaaagatta tatgccctgg tgagactggg ttaaagattg aaagccgatg | 480 |
| naagctattn cagttgctgg ggcaaacaat ggttagggnc nggttnaaa catgtgcctt | 540 |
| aaanggt | 547 |

<210> 7196

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7196

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gccattactt ttaatgactg ctgcaccaac ctattagaat catttatatt tattcatcca 60
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taactccacc ttcccacaca ttgtcaataa tcatttacca actgactgat agagaagtgc 180
cttcctgtt gctgggatga ggcacatgac acgccccitt gaaagtcact gtcattggaca 240
gttggcattt gctcttcaact gctgcacccg tggcgtggct gggcttaggc tgatctagtc 300
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agccagagcc gccgttccct ggggcacgca tatctcgtgg ggaaaatcaa gaggcctaaga 420
aggcangcct ggcaatgcc aacatttcan gcttctgggt gngcccgtgn ctgngaaaat 480
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ctggcaagga tgcggt 556
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<210> 7197

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7197

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ctctcctagc acaaacccta cctctcaggg gaggccagca gtctcttctt cctgataaca 180
tttttccatt tattctaggt cataggccct acatagctat gagagggaga ccaggagact 240
gaatgtgcct ggcaatagct atcttccata ggaatggctc attaagaata tcatttcatg 300
tcagatgggt agactgtatc gaataccatg agtggcaagg gttctgcttg gcaaggctct 360
```

gtttcaagga ctttcatgac cttatgtgat ccagtacatg cattccccaa ttgcaatcac 420
 tgcccactat cctcatcatc cagcttcaat tgagatgagg cataaaggta agtctgngga 480
 cccttctagc agaaaaaaat gccagangga atcacatgtg angnttttaa ggctttactc 540
 tggctgaact ggggtaaacc ta 562

<210> 7198

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7198

cacgtttagt attttattat gaatcattat ttcaaagtcc catactgcat attcatataa 60
 ggcaacacgg cacaatttca ggcttcatca caaaggatga aaaagactgt ttctaactcc 120
 ctctaattt gcanacatgc ttgaacactt aatggaaggt gaagtttatt ttgnggcccc 180
 tcagttctnt ttcaagtcct ctagtanaaa gtctccatgg ngtgatcttc tgactgggta 240
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 ctgcatttgt gaggggccga caccaacaca attaaaccag tgcaccattc agggccatag 360
 ggtaggaggc accagggttc aagaaggaaac ttgcgtgttg taggatctga gttggggcgg 420
 ctctattccg actatccatc gatctccttt cctcatcctc aaaagctttc tcccggcatt 480
 ggcgngggca tcctgggact ggtgggacct cggatcccaa ggtcgtcatg gtgntctccg 540
 cctcggggaa c 551

<210> 7199

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7199

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tcactgtaac ctccacctcc cgggttcaaa cacttctcct gcctcagcct cccgagtagc 120
 tgggggttaca gctgcgtgcc accatgccca gctaattttt gtatttttag tagagacggg 180
 gtttcgcat gttggccagg ctgatcttga actcccgacc tcaagtgate agcctgcctt 240
 ggcctcccaa agtgctggga ttacaggtgt gagccgccgc gcctggcctg cctttacttt 300
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 cagaatacat ttattcactc aactcagaat accttttcct tggtaaattc tgagttctaa 420
 ttttaaagc cctangtggc ctttccgatg ggtattacag gngtaaaggg aaatgngatt 480
 tgg naggt na ataaccctta ccataaata aggatactag aagtaagact tacattttaa 540
 ccaagttnaa taatctaata gc 562

<210> 7200

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7200

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 ttactttttt gaaaaaatca agttgtaaac ttttatgaca aattaaaaat gaagttctta 180
 aaaatctcaa cttgagcaga tatgaaataa ttttaaacc tttaaaggcg tattgagaaa 240
 aaccaggctt tttaaaaaaa cactttgta ttaccaaaaa gagacgtctt taggtaaaaa 300
 taattggaaa ccccatgccc cacagataat gcagctagtt ctagttatct ggtagtgga 360
 cgaaaagcaa gcacttangg tcttcagctc caattttcgt tcatttctta tcgctggaat 420
 tcctagtctt ggttngatga ctaaaccggg tgatggtaga aggtaagcag cccgcanttg 480
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<210> 7201

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7201

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atacatgtat attatattatt gttgattctg tacaccaaat ggattacaag cagcatccag   60
cagaagacag acccccacac cctgcccacc agggctcaca ctctacaaaa ccctgagggc  120
ctagaaatct gtaaattgcat cgccaagcac tggggctgat ttgcagtaat tctctaagca  180
aggcaaacat gatctagctt tgaaggcagc atgaaggcag cgggttggtg agaacaatct  240
ctccttaaga gaagaagaaa cctggggcgg aaggagtttt ccccggaagt ggcttgccag  300
cccaccctct ctgaaccaca gccatggctt ccttcccaag gccactgctg gcttcccaac  360
aacgcagatt cagttctgac tgtgggatct gggggctgaa tctttgaatg gtttatggct  420
aaaagctagg atacatctaa catctggcga caactntggg tcccgagnta tctctaactg  480
gctgntcttt ggaaactttc tgagttggaa gttctttcca atagctttac atagcatctg  540
aaaggttggt gaaattgggt cc                                           562

```

<210> 7202

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7202

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ggctttttat ataaagaatt tttattttct ttgttttaaa acacccattt attctctctc   60
aattttcatg gatcaggccg ggcgcagtgg ctacgcctg taatcccagc actttgggag  120
gccgaggtta gcgatcatg aggtcaggag atggagacca tcctggctaa cacagtgaag  180
ccccatctct actaaaaata caaaaaaatt agccaggcgt ggtggcgggc gcctgtagtc  240
ccagctactt gggaggctga ggcaggagaa tggcatgaac ctgggaggca gagcttgtag  300
tgagctgaga ttgcgccact gcactccagc ctgggcaaca gagcgagact ccgtctcaaa  360
aaaagaaaaa aagaaaagaa aaagatattg gcagaattca actgtatgca atggaaggac  420
ggaagtcctt ggttcctttg cttggctatt gnttgggggc attcccagct actagagtct  480

```

gnctgcatag aaatggtagg tagaagtctt ctaacacttc tctctgntct gntctccttt 540
ctaccttanc tcttctgntt taac 564

<210> 7203

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7203

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ttctttcttt ctttctctct ctttctttct ttctttctct ctttctttca gacagggctt 120
cactctgtcc cgcaggctgg agtgcagcag tgccatcata actcactgca gcctcaaact 180
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atgatgatca ccattttaca gataaggaaa caaatcaga ganggagtgt gactggccaa 480
ggacacaggc cagacgtggc taagttggga ttgggctcaa ccaggctgga ttcanggnac 540
aacantcaa atggnggnng gttnt 565

<210> 7204

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7204

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aagcagtata tgtaacagta atattttctt taaatacaga atcacctact ttatacaac 120
ttaacaggca aacatgttat ttgtgtgtg ttgtttggaa attagcattg ggaaaagcta 180

tataacagag gaaattccaa gtaaaatcaa acagtgttca ctcttaactc taaacacagt 240
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caccatgagc ttctgcacgg ccagcagagc attatagcgg acctgctggt cttcatgatg 420
catgtggtca tgaccagctg cttnccaccg agctgctcga tgaccccgtt tgnctcngg 480
ataatgccgc accatattct tccaacatcg tgagccagca acnggttaaa acttggggac 540
atctgccctt tccaaagttt ggca 564

<210> 7205

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7205

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ttaaaccaga atgctaagcc ccatccccag tctccaattc tgtggatctg gggcagagtc 120
cagtaatttg catgtgtgat gccgctgctg ctgctgttct tggaagcaca ccttgagaac 180
cactgcctgg ggaacagctt agctgctatg agaatctgat tctgtgttca tattccgtat 240
cacagatagc tcttggtctt tcaattgtgg tttctttttt taatgtctta ctaaggggga 300
aaaaaaggaa cgccacttta tataaacctg accttttggg aagcctgggt agtaacttcc 360
catgtggagt aaattaatct ctttcatgca tgcctcgtgc tctggaaaaa gtaaacaga 420
ttngttaga catttaccaa gtactttttc tgggtgnggt cactgcccta acctatcaaa 480
actgggttct acccttaana acttacatgg antaaggngg catccaacaa accagacntg 540
gagtcatggg ngaggggc 558

<210> 7206

<211> 480

<212> DNA

<213> Homo sapiens

<400> 7206

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atgctgaaaa tattccaagg nttattgaaa aaagaaaatt aatctacaga ttcanaaaagt   60
tcagtgagcc ccagccaaga tgaatgcaaa gaaagtccta tttaggcnca tnatgggcag  120
actgctgaaa atcaaagaga gagaatgtgg aaagcagctg gggtagtggt ggtgggagga  180
gacaattata cataggaaaa caacgctnca aaagactgca gacttntcat agaataaatg  240
caagtcagca aacaatggaa cggcntcgat ggatctgcca gtgtcagtc canagcggac  300
cccaaaagtg ttcaggcgtg gactngcact gtctgacatt tccatcgatg gcctgcatna  360
ngaattggcg gtgaacatcc tcttncatnt nactggggg tggaagggtt gaacctgccc  420
ccccanaagg aagcccgttn ccgaatcaaa tggcttaagc ttgggctntt gtggngcctt  480

```

<210> 7207

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7207

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cttttccatt cagaaataat acttttggtt gacttgaatg tttattggct aggactctaa   60
ttgaggaaaa aaatacaaaa aaaggatgca aaatatattt tcctatttag aaggattttt  120
ttttctagat ttcttgctac tgctttactt tcttggtgct gaaagaaaat tattttgtct  180
tcccgtgttc tatttaaagt ggagaataaa aatgccaaat taatgctatg tattaatgaa  240
gcagagataa atcctgtttg gtaagaaaac ctaaaggttc aattccaacc cagctatcaa  300
atctaaggct gatttttatt ggtttatatt tgccttaaat gtattcaagc aatatttggt  360
ctaaaaaaaa tttgtaggga ggtagatata tttgtgaaca ggttgagctc tccttacaac  420
gaacagcagc ttctatcttt caatgcaatc tggcagaaag actagctcat cacaaagcag  480
aaaaggaatt cattanttaa aggtgaagga ntggccccc ccnttagccg aaaaaattg  540
gctggcncng aaagaccggt                                     560

```

<210> 7208

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7208

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aggcatgtgc caccatgccc ggcttatatt ttgtatattt agcagagacg gggtttcacc  180
atcttgGCCa ggctgggtct gaactcctga cctcagggtga tccaccacc tcagcctccc  240
aaagtattga gattgcaggc gtgagccacc gcgcccggcc aaaataataa tatgtttttt  300
atcctgacaa acatgtacaa tttagtgaac cactttggaa ctagtaccgt gcactttacg  360
tatacttttag attctgaata tacgaaaatc ctaatatcc agaggagtaa cactggctag  420
aaagttgcac aatgaaaatt ctatgncatt taacaagttt ttggtatttt taagaacccc  480
ccaaggttnt agaagccngg tnttgatagc tagggccctg gccttaaggc ccnaggtcta  540
natagncaag gaaaaatn                                     558
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<210> 7209

<211> 154

<212> DNA

<213> Homo sapiens

<400> 7209

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cttttgagat ggagtcttgc tctgcttccc aggctggggt gcagtggcgt gatctcggct   60
cactgcaata tccaactccc ggattcaagt gattatcttg acttaacctt ctgagtagct  120
gggncaanag antcgcgcca acccnntagc cnna                                     154
```

<210> 7210

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7210

```

aagccttata tttttaataa aaaataaaca gtctctgaca agcagttttc tgaatcccaa 60
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gtcagatta cccctgccat tctgccaggg cagaagggat cagagtctgc cccaactgaa 180
gcaagaagaa aggtggtcag acttcaggga agacttcctg ggagtcagcg gtgcacgact 240
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gtcttcaata tcagtgtagg aaccagtctt gggggtagcc cccaccttgt tnaaaagctc 540
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```

<210> 7211

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7211

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canatggagt atcactctgt cgcccaggct ggagtgcact ggtgcaatct tggtcactg 60
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tactggcatg caccaccatg cctggctgat ttttttttt ttaagtanan aggggggttc 180
accatgttgg ccaggctggt ctggaactcc caacctcagg ngatccacct gccttggcct 240
cccaaaatgc tgggattaca ggcatgagcc acaccagcc aatggaanag gcncctttta 300
anaatggaaa aaagtgcctg acatgacttt cacttttcca taaagagtgg acgttttaac 360
taaaggcaac aagaaacnta acatacagga gagaaaaact catnccaaag ggagagagaa 420
aaagaataaa gggggatcct gaaaaantgc tacttttaaa ggcatntgcn ccctgataaa 480
ggatttgacc ctctaanggg gcncagtttt ttttacncta cgtcttttgg gcttacccaa 540

```

<210> 7212

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7212

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gctctgtcac caggctggag tgcagtgggtg cgatctcggc tcactgcagt ctccgcctcg   60
cgggttcagg caattctgcc tcacccttct gagtagctgg gactacaggc atgccccacc  120
atgcccagct aatTTTTgta ttttagtag agacgggggtt tcaccatgtt ggccaggatg  180
gtctcgatct ctggaccttg tgatccgcct gcctcggcct ccaaagtgc tgggattaca  240
ggcgtgagcc accacgcca gccaggcact tcaaattttt tgtctctgtg tgtctgcgaa  300
taactgagaa agtgccacag tattgatttg ggggttaca acatatttta gtgagtaggc  360
aaattctcaa atacaaaatc tatgaataag gatcaagtat acgttcattt ggcatTTTaa  420
gtaccaagn tccctcatta tctgaggagg gcancatag aaacttaatt agacttcttc  480
ttaacattaa aggaattatt tgaaacagga tgntgttgcc cagctggagt atagnngccc  540
gactcggtta atg

```

553

<210> 7213

<211> 532

<212> DNA

<213> Homo sapiens

<400> 7213

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gcgggaagga ggtaggagtc aagtccaata aataagtgtg aaaatattca gtacatggca   60
tggttattta atacaacaga atttgctctg agttggaagg acaggggttt cagcctatgt  120
gtttatgata caacaaaggg acttttaggc tgataaagtt atggaacatg agacttcagt  180
cttcttatta aatggccaaa tggaccaagt gtttgcata aagctaactt ttcctttcat  240
gaaaaggaaa ttaaaccac ttgctcccga atgggatgat tttcaggagt cctgagccat  300

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gttctggcag aaagctgggg tctgtgacca taaagcagga ctgctgtcat ccaggcagat 360
aattattatc aggaacgcct aacattgctt ctttctgcag tttcatgtgc cttgggtgaag 420
atgtaagctt tctgaagact acctgcatc agnctttgng ggctactcca tataatgagaa 480
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<210> 7214

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7214

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acctccacct cctgagttca agcaattctc ccgcctcagc ctcccagta gctgggtcca 120
caggcacgtg ccaccaggcc cagccaattt ttgcattctt aatagagacg gggtttcacc 180
atgttgggtca ggctgatctt gaactcctga cctcagggtga tccacttgct tgggcctccc 240
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ggcttggttg aagtccatan gggaactggc angcacaacc ttncctnagg atcttggnatg 540
gcaaagnttg cttttactga ggccng 566

<210> 7215

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7215

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 ctcacatgt tgcccaggct ggttttgaac tcctgggatc aagtgatccg ctcgcctcgc 240
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 ctcatgtgct ctacatagca atcagtataa tcccttaaaa atatagttct aacgtaggaa 360
 cagaaaacca aacactgcat gttctcactt ataagtggga gctgaacgat aagaacacat 420
 ggacacactg tcgggggaac agcacgaact ggggccctt ngggggtgca aggtggaaag 480
 gaanggagaa catnaggaan aatagcttat ggatgctggg gtaanaccta ggngaccggg 540
 ttanctg 547

<210> 7216

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7216

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 cagcattcac tatgtaactt actgcttttt ataagtgcac aatttctgnc acagttaccc 420
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 accctggnga ccttgntggg cnnggnttta caagtttggg attttgng 528

<210> 7217

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7217

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atatgtggac tctaaaaatt atatgttctc tcttttttca ggttttcttt gtggcctaag 180
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ctttttcatc tgcttgcttt attgaagtcc aagggtgggt gtgagtttat taagttactt 360
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ccaagagtag cacananggt gctctttcaa ggctctcttg ggcagaagga aaatcttcca 480
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aattttttcc cccgnggg 558

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<210> 7218

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7218

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ctgggattat aggcgtgtac caccacacc agctaatttt tgtattttta gtagagatgg 180
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tcttaaccaa actggaaaac agcactgaca ttattgggtg gtcattttt ttcattgtgc 360
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ngtgattttg ctaacttggn gatttttagg aatgaatat tcaagtata gtaacnctaa 480
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ttttt

545

<210> 7219

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7219

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ttttccccag acattgcagg ccaaattaga gttaagatga ggaaatcctt tcagtcctca 180
cagaccagac ttggctttat aaaacataat caagtccac tatacaacct aggtgttagg 240
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gaaaaggagt cccaaatagc tcaattttac ctttggnant ttctgctnaa aaataaaagt 540
gaanccnccc ctn 553
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<210> 7220

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7220

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tacaggcacc caccaccag cccggctaatt gttttgtatt tttagtanag atggggtatc 180
actgngttag ccaggatgat ctcgacctcc tgacctcgtg atccgcctgc ttcggcctcc 240
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caaagngctg ggattacagg cgtgagccac cgcgcccggc cctatTTTTT gaaatcatat 300
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gcatgaaaat gggccttgta gacaagctga ttcaactagg ggggaaaaaa gaggagggaa 420
gaaagcggca atttatatgt gtgaaatncn caactgggaa tcaagnttan ctgtttggaa 480
atntccagc tcattgggag tnttgaant ccagaaaact tgggctttta aagatggggg 540
ga 542

<210> 7221

<211> 444

<212> DNA

<213> Homo sapiens

<400> 7221

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gggaccacag gcgcgcacca ccattgtccag ctatTTTTTT gnatttttag tanagacgga 180
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actcaatgnt aaattagttt gcattttagg ctgggtgcaa tggcttatgc ctgtaatccc 360
ancactgtgg gaaggccan gaaagcggga tcatttgagc ccagganttn aanaccaacc 420
tgggcaacct angggaaact tngc 444

<210> 7222

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7222

gaaatggaat ctgcctctgt caccaggct gaagtgcagt gtcacattct gactctactt 60

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 aagaacatca gattactgaa acaagacagc cagtgccttg ttaaagcaga tatgaaagca 420
 atgtctgagc acttagaggc aaacaataga atccagtttc atcatattaa ttaagccaaa 480
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<210> 7223

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7223

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 ngattctcct acctcagcct cccgaatagc tgggcttaca ggcatgcacc accatgcccg 180
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<210> 7224

<211> 131

<212> DNA

<213> Homo sapiens

<400> 7224

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 caagctctgc ctcctgggtt tatgccattc tcctgtttca gcttcccag tagctgagnc 120
 nnnagantnn c 131

<210> 7225

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7225

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 tccatgttgg tcaggctggt catgaactct tgacctcagg tgaaccgcct gccttggcct 240
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 aactggggnn cn 552

<210> 7226

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7226

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acaggcacct gccaccacag cgggctaatt tttctatitt ttgtagagat ggagtttcac  180
catgttgccc aggggtggcct cgaactcctg acctcaaggg atccgcccac ctcagtttct  240
caaagtgtgt ggattacaag tgtaagccac tgctccacat ttaactccaa tgatgctgag  300
cacaaccag cactctaatt acaaaaattt gttttgttat aactgaacat tccctttcta  360
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agatntaaga aaacncgaga tcttataaag ncaattttta aaaccaggac catggttgnt  480
aattcangga aatgngaatt tggaatccct atactcaggc tngggcaatc aancganttc  540
tggttac                                          547

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<210> 7227

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7227

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ttataggcat gtgccaccac accagctaa ttttgtatit ttagtagaga tggggtttct  180
ccatgtcggt caggctggtc tttactccc aacctcaggg gatccgccc cttcggcctc  240
tcaaagtgtt gggattccag gcgtgagcca ccgcgcccg ccgggaaatc caattttacg  300
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tacaccagat gcctgaaagg gtgacgcca ggccccctnt gcttttgga cttgacaagg  420
tccaatggca cctgcaaacc tgagtggcct ngcctggggg gaatttgctg aactgaaggg  480
gggaatggct anaataactg ntttactgat gggactccgg cttcctttan gggacatccc  540
caactgaatt tgg                                          553

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<210> 7228

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7228

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ggaaaatctt ctagaaggta gagttcatga aatttccaaa tatctcaatg ttacaaaaac 180
tcaaaatggg ggccatagtc ataaagtatg gcctccagtg gatgagtgga cgcgtggagt 240
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taaaaatncc aaaaattaac tgggcatggg ggtgcaccct ggaatcttng gcccctggga 540
agcttaaccc ggaaattctt tgancccgga 570

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<210> 7229

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7229

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cttctgaaca tcgttttttt gctaggtttt catttttttc ttccatttta aaatctgcc 180
gaattgtttg gcttgatata gattctttta actttacttg tattgattct tttaatatag 240
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cctgcttctt tgaattttca tccactagat ttttgctat atcaccetta tcatttgaaa 360

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tatcttcaag acttaaagt ttgttattat atccgctctt ctttaatgca ctacttatta 420
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 ctttcctggg tccaaanac cttttttctt caaatccttt nctctccttt tecttncnct 540
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<210> 7230

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7230

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 aagtgcacat tcagtagtgc taggtatatt cgcattgttg tgaaaaagat ctcccaatgn 360
 tttcatctgg caaaacaaac tctgtacca ttagacagct cccatttctg ctttcccaca 420
 agcaaccacc attctactgg ttctatttat ggaccccata ttagtagaat catatagnat 480
 ttttcntttg gaactgggct tatttcactt aacataangg tcttaanggt catctatgnt 540
 ggggcatatn ggangaattc cttccttttt aaa 573

<210> 7231

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7231

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 ctgtatcttt catgatgttc ctgatttctc tctttttttt ttttcttttt gagacagggt 180
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 tgtgattaca agcgtgttcc tgggtctctt gnatctgcga tataactggg aactctgcct 480
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<210> 7232

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7232

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<210> 7233

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7233

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<210> 7234

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7234

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gcttctgaga accaggaatc agaaacangn gctcttcggt ggctngcta acataaattc 480

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aangaatggc agggattcac aagccnaatt gggtgggaca tccngccata tggcntggaa 540
ttggttttta aaaaatatca 560

<210> 7235

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7235

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aattttacta gctggttccg gagaatcaca gnctactact gnataatagt actttaagnc 480
gtttgaattg gtaatctctc aatttttctc ttaacgtcca gtcttttctn ggcatntta 540
ggaaacctaa aagctctact ggggcctg 568

<210> 7236

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7236

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 agagaatttg aggttgactc acggctttga agggaaaaca ggaagangaa gaaagtctgt 480
 ctncatggg tcggcaaccc acactttaca cattttttcc atggggcttg ccncttgccg 540
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<210> 7237

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7237

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 tgtgctgcca tcctcggtta atcttttggt ttctgtttcc tttttttttt tttttttttt 180
 tttganatgg agttttgctc ttgttgccca ggctggagtg cagtggcgtg gtctcggtc 240
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 ggattacagg tgcctgccac cagccccagc taatttttg natTTTTtagt ananatgggt 360
 ttcaccatct tggccaggct ggctcgactc ctgacctcat gatccgcccg cttggcctcc 420
 aaagcgctgg ggattacagg tgtnaaccac tgngcccaac cattttggaa ttttttttga 480
 nacagctntt ggtccgttgc ccaacttgaa tccanggggc aaatttaant tactggaanc 540
 ttgcctctgg n 551

<210> 7238

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7238

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tacaggcacc cgccactacg cccagctaata tttttttttt tttttttttt tganatggag 180
tcttgctntg tcgccaggc tggagcaaca aaaataaact taattcctct tggncacca 240
gttaccaatc tgnacctntn tcacctcag ttctcaattc tntccaaag atttgcata 300
aagttgatat ctggttatgc tctgatctac cagtcttigna atactagtgt gtgagaaaga 360
aacctgcctg ccacaatttg cttaccaact atttgaacat aacaccctct atattagccc 420
taagaaattc tcaactaagt catgtgacaa gaattcctct atttgaacaa tnattccaaa 480
ccaggatttc actgggntca attttcaggg gtttanccct ttgnttaagc cccaggaag 540
ttttnaaaaa n 551
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<210> 7239

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7239

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aatcataaaa gagttagatt ttgtcaaata cttttcttat atcagctgaa ataatcatgt 60
ggttttcttt ctcttcattc tgtaaatgcg gtgtattaca ctgattttct tatgttgaac 120
tacccttgca ttcctgtaat aaatcttgct ttgtcatact gtataatact tttaatattc 180
tgttacattg agtttgccat tattttattg agaatttttt acatttacag tcatatggaa 240
atattgcttt ttttttttct tgtggtgtct ttaggtagct ttggtataca tgtaataatt 300
gctccataga atgagttaaa aagtgttcct ttttagggaa gaaaactttt ttaaaaagga 360
ggtttgggtg tcattattct tticattttt tttaaacaga gtttgcctct ggtgccacc 420
tggaatgcaa tggcccaatc tcagctcact gnacctcggc ttccggatca agcaatctcc 480
ggcttaanct ccaggacctg gatacaagca tgcgccacca tgccggctaa ttttttgat 540
tta 543
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<210> 7240

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7240

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ccaagacaga gtctcactct gtcgcccagg ctggagtga gtggtgagct cagctcactg   60
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tacaggcatg tgctaccaca cctggctaata ttttgtattg ttagtagaga tggggtttca  180
ccatgttgct caggctggct tcgaactcct ggctcaggt gacccgccca ccttagcctc  240
ccaaagtgtt gggattacag gcatgagcca ccacgcctgg cctttgtttc gttttttgtt  300
tgtttgtttg tttttgagac acagtttcac tctgtcacc aggctggagt gtagtggtgc  360
aatctcaagc ttaatgcaaa ctccacctnc tgggttcaag tgattcttgn gcctcancct  420
nttcgaagta gctgagatta caggaagtgg taccaccatg cccggnntaa ttttttggan  480
tattaagtaa gaagacnggg ctttcacca tggtttggcc ggggttgggc ttnaaacttc  540
ctggagcttn aagtggatcc ancccatntt ggggctttcc a                        581

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<210> 7241

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7241

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gagacgaagt ttcattcttg ttgccaggc tgcagtacaa tgggtggaatc tcggctcaac   60
acaacctctt acctcccggg ttcaagtgat tttcttgct cagcctcctg agtagctggg  120
attataagca tgcaccacca caccggctaa tattttgtat tttcagtaga gacagggttt  180
ctccatgttg gtcaggctgg tctcgaactc ctgacctcag gtgatccgcc ccgcctcagc  240
ctcccgaagt gctcggatta caggcgtgag ccaccacgcc cggccaaggt ttccattttc  300

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tgtgctactc caaaatcctc tcccttgcat gtcattggaat gcagccagcc taacttccta 360
aactcaaaaa catcccatig aaattcctgg tactcaaggc tcctgctccc acggtaggac 420
aagcttcagg ctcccccaag tgcantgtgg gccaggagct cgaactattc ctgngttggc 480
ctgggtcaag ctggtgaagt ctgattcttt ctgctagaa gcaggaaaaa ggggggcaag 540
tttgaaatgg nactatgggt nctggaagcc 570

<210> 7242

<211> 433

<212> DNA

<213> Homo sapiens

<400> 7242

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caacctccac ctcccagggt caagcgattc tcgtgcctca gcctccctag aagctgtgat 120
cacaggcgcc cgccaccaca cctggctttt ttttttttt gagacagagt ctcattctgt 180
cgcccaggct ggggtgcagt ggcgcgatct cggctcactg ccagctctgc ctcccgggtt 240
caggccattc tcctgcctca gcctcctgag tagccgccc gctgatttgt ttttttttt 300
ttttnagtt ttagtagana tggggcctca ccatgttagc ctagttttgn atttttttt 360
agtaaaaaat ggagtttcac catgttgcc anactggctt gaactcctga cctnaagnga 420
tctgnccgnc tna 433

<210> 7243

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7243

cttagcaaat attttattaa tacacactgt catagtccta ggatagaaga gtcctcagaa 60
cactgctcca cattgaagat gctgaaatgg gtggtcaggc ccttagtctt ccttctagtc 120

tggttaacccc acactccttt aacagaacca tgcttgctgc ccttaccctg tccacatccc 180
 tgaaaggaaa cgggtctctc tcagccagat gcagatagtt gacactcact gcctttgcta 240
 tggcaggggg ctccttatga ttaaccaga acaggaaaaa cttagtgtca gctgaccgaa 300
 aggaactcag ccttaatttt tcaaaaagtc actctcattc cagctatctc caggaaggcg 360
 ctggagtatc ttcagcatga gcacagagat tcccactgcc gaaatattcg gaatactttc 420
 cttgatttct cagagagact catggagtcc gtttcantcg gctggctaga ctggttgtgc 480
 cccaaganga tggtaaacac tggttttcaa cctggctctg ctggggccct ggcatctggg 540
 tcanttcccc attctcc 557

<210> 7244

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7244

ggagatggag ttctgctctt gttggcaggc tggagtgtca tggtagatc ctggctcact 60
 gcaacctccg tctcctaggt tcaagcgatt ctctgcctg aggcttcccg agtagctggg 120
 attacaggca tgcgccgcca cgcctggcta attttgtatt tttagtagag acagggtttc 180
 tccatgttgg tcaggctggg ctcgaaactc cgacctcagg tatctgccag cctcggcctc 240
 ccaaagtgtt gggattacag gtgtgagcta ccatgcctgg ccaaagacc tcttcttttag 300
 tttcattctt atttaaaata atatgacgac gagcaagaat cctgtttcca gcttaacagg 360
 cattaggaga gaaaaaagat naactaaaca ggactggagg ctgactaact ggggggtagg 420
 caggaaggag aatttcaact gtcagaataa gaagggaata gctngaaggc agacaaccgg 480
 accacctgga aatgacccaa tgctnttanc cagggactta acttccatca tggattttaa 540
 agccccaga aatac 555

<210> 7245

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7245

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aaaaa caaaa aatggattgc caacctcccc taccatagag tgtctaactc agaagcatga 60
actggcgtgg catatgcctg ttgcctatgt atagtttctc agtataaagc ttttctgaat 120
tgtcagattc tgtggacatt tggaggctag gaggtaagat tccaaaacca gcatgtcaac 180
caaagccaat aataaggcct ctcaaatacc taccacatat ctgaagagaa acttttaaca 240
gttttcacta tatattttaa acaaaaagtc agaagagtaa aaaagtcca ttttaaactg 300
tatatatacc atcttaattc ttgtgttgga ctatagtaaa taacaaaatc angncagggtg 360
cagtggctca cgcctgtaat cccagcactt tgggaggccg aggcggcaga tcacgaggtc 420
aggagatcaa gaccatnctg gcgaacacng gggaaacccc gtccctacta aaaatncnna 480
agattggccc ggnggtggng g 501

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<210> 7246

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7246

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atgaagaaaa gaggtttaat taactcacag ttctgcaggc tgtacaggaa gcatggctgc 60
gaggcctcaa gaaacttaca gtcattggcag aagggcgaag ggaaagcaag caccttcttc 120
acatggcaga gggagagagc aagcaaaggg ggaagtgcta cacacttaac cagatctcat 180
gagaactcac tgtcatgaga acagcaaggg ggaaatctgc ccccatgatc caatcacctc 240
ccaccaggct ctacctcaa gactcaggat cacaattcaa catgagattt ggggtggggg 300
acacagccaa accatatacat tccacctggt cccctcccaa atctcatgtc ctcacatttc 360
aaaacacaat catgccttcc caatagcccc ctaaagtctt aactcattcc agcattaact 420
caaatgtcca agtcaagtct catctgagac cagccaagtc ccttccttct gtgagcctgt 480
aaaatcaaaa accagtcagn tatttncaag atccaatggg ggatcnngca ttgggtaaat 540
gtccccattc caaataggag aan 563

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<210> 7247

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7247

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gacagagttt cgctctttgt tgcccaggct ggcgtgcagt ggcacaatct cagctcactg   60
caacttccgc ctcttgggtt caagcaattc tcctgtctca gcatcccgag tagctgggat  120
tacaaacacc caccatcacg cctggctaata ttttgtattt ttagtagaga cgggggtttca  180
ccatgttggc caggctggc tcgaactcct gacctcgtga tccgcctgcc ccggcctccc  240
aaagtgcctg gattacaagc gtgagccacc acaccagca ataataggta acttctaaga  300
cccatagcca gtaagacgcc cagctaggat gtgaactcca gtcctgtctg agaacacctc  360
tcccactccc ctggattgcc ttgatgcctt gagtcaggac ctcaggagtg cagcctctg  420
gaaagtcctt agcacaggca agctgtgccc cgaagtggat gcagtcattc tgggaatacc  480
gggaaaagtg ggaatgcaag ggaacatnca catttaangg gtangtggan aaacgggaag  540
gaacccgaac cagcccggaa ggtagg                                     566

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<210> 7248

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7248

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gananagggt ctactccct gngcccaggc tggagtgcag nggcatgac ttggctcact   60
gcagcctcaa cctccccaaag ctcaggngat tctctacct cagcctcctg agtagctggg  120
aatacaggcg tgtgccgtca tcctgggnga ttttgtatt tttgtanan acggggtttc  180
accatgttgc ccaggctggc ctggaactcc tgggctcaag ngattcaccc gcctcagcct  240
tctgaagtgc tggcattaca ggcatgagcc atggngccag ccccaaattt tctcttctta  300

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ttaggacact attcanattg tattagggct catgccaatg gcttcattta ctctaaatta 360
 cctcttttaa gcccttatct cctaataat ccacattctg cagtactgga gggtagggct 420
 tcaacataca catttttga gaacacaatt taccataa caaccagnca atnccagta 480
 accaaaaaaa annctggaa ttgagggaa actcaaagng gttgggaaga aactnttggg 540
 ggcnc 545

<210> 7249

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7249

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 caggctctgc cccccgggt tcacgccatt ctctgcctc agtctccga gtaggtggga 120
 ctacaggcgc ccaccacat gcctggctaa tttttgtat ttttagcagt gacggggctt 180
 ccccggttta gccaggatgg tctgatctc ctgacctgt gatctgccg cctcgccctc 240
 ccaaagtgt gggattacag gcataagcca ctgcgccgg cctagttttt aatttttaa 300
 gtataattc acataacat aatattcact ctttaaagt acacaatcca gtgtttttg 360
 ctatattcac aaaattgtac aatcatcac attatctaag ttctggaata tttcatcac 420
 tcaaaaaga aatccatac ccattagctg ncacttcta ttatcttcc cttaaaattc 480
 tnggaaccnc tnatctatat tggggttaaa gancgtgctt aactggaant ttacatgaat 540
 gggataatcc agaagnggtt t 561

<210> 7250

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7250

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 ttctctggag gctctcaagg acttctgatg ccctctcagc actcatagca ttccttaaca 120
 catcactcaa gagtctacat gatttggccc caagatactt ttcaaagttc atttctcagt 180
 tcataatagc ccccatcaaa ttactcatgt tattgtactc tgtttccacc ccttccattt 240
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 tgattttcta aactgtatga agtgtctagt agagtgcctg ggacatagca attgctctat 360
 acgtggcaga tgttattatc tgaggttcct aagtggatca acccaaggta tgttctttat 420
 tttnntattn ntttattttt tgggatggaa tctcattcca ttgccagct ggantgcant 480
 gtgcaatggt gaaatcttag ttactggaac ctcggctcct ggggtcaagg gatnctggga 540
 ctacagggcc cccacntgc 560

<210> 7251

<211> 487

<212> DNA

<213> Homo sapiens

<400> 7251

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 caaccttgac ctctcaggct caagtgatcc tccacctca gcctcccaag tagctgggac 120
 tacaggcaca caccaacaca cctggctaatt ttttaaattt tttgtagag acagggtctc 180
 actatattgc ctaaactgat ctgatctcc tggactcaag cgatcctccc accttggcct 240
 cccaaagtgc tgggattaca ggtgtaaacc gccgtgccc gcaattttta attttttgta 300
 gagatgggat ctccctttgt ttgttgccca agctgggtctc aaactcctgg gctcaagcga 360
 tcctcctgcg tcagccttcc aaagtgagat tacnggtaga aaccncttaa aaacaatttt 420
 ttatcttcag cttttaangg gnacatatgc nggatgtgca aggttggtac atangnaaaa 480
 ggtgtgg 487

<210> 7252

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7252

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gagacagggt ctctctctgt tgcccagact gaagtacacc ggcatgatca tagctcactg   60
cagcctcaaa ttcccggctt caagtgatcc tctcaactcg gcatcccaaa gtgctggaat  120
tacagggtgtg agtcattgta cctggccagt caaccattgc ttaaagcgaa atatttctct  180
acattgctca tatatagttc acaaatttaa agcaatactt tcaaagttaa actaatgcaa  240
aatatgaaaa aaatgttttc attagtgaga tgcataagaa gataccactt tatacccatt  300
aggatgacta ttattaaaaa agacagtgtt ggcaaggaca tgaagaaaat ggaaccctta  360
cacattgatg gtggaaacaa aaatagtata gctactgttg aagacagtca ggcggtcctc  420
aaaatattaa acacagaatt attttatgac ccagcaattc ctttctaaga tcccccaaag  480
aactggaagc ggaaatgcaa catatctggc attaggggtca tagcagtatc ccatagncnc  540
aaggngtaac tcaaac                                     556

```

<210> 7253

<211> 495

<212> DNA

<213> Homo sapiens

<400> 7253

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gagacagagt ctcactntgt caccagggct ggagtacagg ggcatgatct cggctcattg   60
caacctntgc ctcccgggtt caagngattc tctgcctca gcctcccgag tagnggggat  120
tacaggcgcc caccaccacg tccggctgat gtttgtattt ttagtanaga cggagtttcg  180
ccatgtcggc ggggctgata ttgaactcct gacctcaggt caggatccac ccgcctcggc  240
ttcccaaagn gctgggatta caagcgtgag cactgcgcc tggcccaaac atcttttatt  300
ttgaaaaggt aaaattggaa aaaagttgct tgggtgggacc gcccgcgag cgaagggcna  360
acccgcgctg gccctgcgt ctggggccnc natgctgacc cccggggttc aacctnaacc  420
aggancccg atttctgaca ttggcatccg nnggcctatg ccccggttc gagttcaacg  480

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gntaacttna ggggn

495

<210> 7254

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7254

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agacggagtc ttgctctgtt gccaggctgg agtgcaagtg gcgtgatctc agctcactgc 60
aacctctgtc tcccagggtc aagtgattcc cctgcctcag cctcccgagt agctgggact 120
acaggcacgt gccagcacgc ccagctaatt ttttgtatTT tagtagagac ggggtttcac 180
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aagtgctagg attacaggtg tgagccactg tgctgggccg caaatttctc ttttgtggga 300
gaagccactt tagaagtata tatctacata ccttgnctaa gtcaatgtgt tgctataaag 360
gaatacctga ggctgggtaa tctatacaga aaagaagggt tatttggtc tcgggtctgc 420
aacctgcacg ggaccatggc actgacattt gcttgggggtt tggaaaaggc ctcatgaagc 480
tttcacttct ggnggaaggg aaaaaggTTa aaggganccg gcgttncaaa aatcccttgg 540
naaaagccna accngaaaaa acct 564
    
```

<210> 7255

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7255

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gacacatgtt tagtcattaa agcttggaga ggtcaaacta acagtcacac tggatctgaa 60
taatgtccaa agcagcacag taagtagccg gtgttaatct gttgctaatt tttttgatgg 120
aggtgtaaaa gaaaggcaag aaaatctaatt tggctgtatt tgggataaaa ttatagtgtt 180
atatTTtctg gacaagaaga tggaacagtg gcaaagagat gctttaagaa tccacagtac 240
    
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tggcccatct agccgtatgg atgccaacag cacattcttc actgggcctg ctattttaatt 300
 tgcattgcttc ttgtgacact tgttccatga tatttcagag tagcttctct taaagaagca 360
 tatattgtaa accacagcac atccagaaaa gtcgtcttac caaatcctct ttcaacctca 420
 actcttgngg ccataatatg gtcagtgtaa cctcangccc tgggctccct aangggccta 480
 ggtggaactc ancgagggcc ttttaccact atgcaacnta aggacagatc acattccctg 540
 agcctcagtt ncntgnaaaa an 562

<210> 7256

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7256

gcaggttaat ctgtttatct tttcaaaaca aaactaaaaa tcgccactca atgtatctga 60
 gcagactgcc tgatcacagt taaaagcttt ctgtaatgcg cagcaggaac gtcatagcct 120
 ggtggtcaga aatgagtgtc tctggcgctg ctggactgtg gcccgcagcc tgagcaccct 180
 ttcttctcct cctctgctc atattgtctt tgtgctgcca tccagtcagc agcggacagc 240
 cagcccaatg ctgctcaggt ctgtggcatc cagagataaa aggcgtctcc gctccccgca 300
 ggtttctgct ttgccacctg gtggggtacg cgcctggcac gccaccccca ctggagggtcc 360
 tgaatggtcc acagagaagg cgtggggcaa ggcctcaagt gctgatgctc tgagaataaa 420
 aattaaaagg cagctcttgc ctgaagcgtc accccacang gctcaatnct tggctgngnc 480
 ctctggggnc caaggtgggc acatggttcg gggnaataat 520

<210> 7257

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7257

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 ggggcagga ttaaggacca cagctgcacc acagtcctgg gctgactcat ggccagtcac 120
 cacgtctctg cagccttttc acagaagtac aaaagtgtt tctttgtgga gacaggactt 180
 aatttgatgc atttcaaccc tgtctaaatt cccctcttta tgggccagac agatatactg 240
 tcaaacaaat tccaagtaag ccaaacagag gctgagagaa tttgtcagtg gagaaaggca 300
 agtttcactt attcttgata gactgagttc cagatgggca gcagtgcctc agtaggtaga 360
 gtgcccagca aaggggcaga cctgcaccc cactaagcac tttctgggga cctggcagct 420
 tgttcttaac ctggaaaata agtccatgaa gtcggcatta ttatcctcac tttaccaagg 480
 aggaaagcca gggttcanag gagatntcca cttgncaatg gncacttagc cnggaatgga 540
 cccaactgct tcatactntt ccatgatttt acn 573

<210> 7258

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7258

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 ctcccagta gctgggttta cagggtgctg ccaccacgcc cggctaattt ttgtttcttt 180
 agtagggttt caccgtgttg gccaggctgg tctcgaactg ctgacctcg gatctgcccc 240
 ccttggcctc ccaaagtggg gagattacag gcgtgagcca ctgcacctgg ctttttattt 300
 ttttaacttt gtatacggta ttttctttt ctgtatagaa gtcaaactat tttccttcat 360
 ggattctggg ttttgtctct tcattccaag accatttaaa aaaatgtgtt cacattttcc 420
 tctgatactt ttaaggnggc tttctgaaga taaaacctga tgtgtctgca atgctagant 480
 gangcttgag tatggcaagc ttinctgangt gcacctgtga actgaggaca acatggcntn 540
 tnaaggaagg acaatcc 557

<210> 7259

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7259

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gagatggcgt ttcgccatgt tgcccaggct ggtcttgaac tctgggactc aaacgatctg   60
ctcgccttgg tctcccaaag tcccagctaa tttttttttt tttttttttt tttttttgag  120
acggagtctc gctctattgc caggctggag tgtagtggcg ccatctcggc tcaactgcaac  180
ctctgccttg tggattcaag caattctcct ccctcagcct cccgagtagc tgggactaca  240
ggtgtgcgcc accacgcca gctaattttt gtacttttag tagagacggg gtttcagcat  300
gttggccagg atggtctaga tctcttgacc ttgtgatcca cccgcctngg cctcccaaag  360
tgctgggatt acaggtgtga gccaccacgc ccggcccagc taattttttt aaaaaaagct  420
ttagagatg ggatcttgct atgttgcca ggccagtctt gaactcctgg cctnaagnna  480
ncctnccgct nna                                                         493

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<210> 7260

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7260

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gagacagagc ctcactctgt tgctcaggct ggagtgcagt ggcacaaact cagctcatga   60
caacgtatgc ctcccggtt caagcgattc tcacgcttca gccaaactaag tagctgggat  120
ttcaggcatg cgccactcct ggctgacttt ttctattttt agtagagaca gagttttgcc  180
atgttgacca agctagtctc gaactcttgg cctcaagcga tccgcccacc tcagcctccc  240
aaagtgctgg gattacagac aggcgggagc cacagtgcct ggccttgcat taatttttaa  300
aatgagaaat aatacagtct tgctttcatt taaaactttt tccaagaaac catgagcaaa  360
cctgtgttta ccatatatac tgnactgaat atttgacat caccatttca atgtaaagtc  420
agatgctaata aattaacaca gactgaccaa cactctgaaa tgacttggtta ttttctaaaa  480

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taccattagg tacagacctg aggaatgctt gggtcacttt cattaacact gncaggagaa 540
ttcaggcntg agtngatcct tctaaaa 567

<210> 7261

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7261

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gaggttcctc ccccaccatg ggacctaagc tattggaaac aggagcacca acagggcacc 180
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aataaccggc agtcaacctc agggctcata cccgagcttc tgctcaatcc cctcggggac 420
agttacagga ctcagagaga aacgtgaatt tcagaaaaac aaatcatttt tcacataagt 480
gttccaaata ttgcgtgggg catattaatg ctngaaaant atctttggtt anctgaaatt 540
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<210> 7262

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7262

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cctcgtgatc cgcctgccta ggactcccaa agtgctggga ttacaggcgt gagccactgt 120
gcccggccat tatttcattt ctttactgga tatctttgct tgctaaagtc tctgaatctg 180

aggtctgctc tttctgacaa acaagggtga gaggtgttaa aaataggcta ttatcaaaga 240
 ctttctcttg acttaccaga ggcattgaaa tggatgaag aaggacatt actttcacta 300
 catgactcaa tgctacttaa tctaccactc atggtaggaa aatgcttatt gggataactc 360
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 catggtttga gtcantgctc tctaaccctt cccgtanaga catgctttcg gttcctgggg 480
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 catcgctatt tgccaggctt ggg 563

<210> 7263

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7263

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 gactacaaat gtgcaccacc atacctggct aatttcttgt agagaacagg aggctgactt 180
 caaactcatg ggcttaagtg atcctcttgc cttggcctcc caaagtgctg ggattacaag 240
 catgagccac tgtgcctgga ctattatgaa attcttgaag taaattcttc aattccagaa 300
 gttcagttga tttcttcttt aaaatagcta ttttgncttt tagctcttgg gctgttttac 360
 ggaattcctt gaataccttg gattgggttt caactttttc ctggatcttg atgagctttg 420
 ttgctaccca gattctgaat tctctgctgt ccagtagtca ttacaatctg gttaaaaact 480
 actgctgatg ggtaaagggg ttggttcggc ataaaaagac ctttggcntt tggaatgnca 540
 cggttnttgg cctg 554

<210> 7264

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7264

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aagtctttta ggtgggggtgt ttaggttggt tacattcaag gttaatatg agacatgagg 180
ctttattcct aacatgggtgt cattagctgg ttgctctgta gtttggattg ttagttgct 240
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tttcatttcc atgttttaga ctctcaagac tctctttag ggccagtctg gtgataacaa 360
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gtttggcagg atatggaatt cttggttagg atttttcttt tttattnttt tcttaaagag 480
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<210> 7265

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7265

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tacaggcaca caccgccacg cctagccaat ttttgtattt ttagtagaga tgaggtttca 180
ccatgttggt caagctggtc tcaaactcct gacctcaggt gagtcactg ccttggcctc 240
ccacagtgtc gcgattacag gcgtgagcca ctgcggcccc cctattttct ttttctatat 300
gagaaagggg gaaggtcagg tacgtggcca aggtcacata taaagcaaaa ggcagggctg 360
ggttcctacg ctactgggtc aagttggctt cttccatctc ttcacaaaac tgagatgatg 420
gtaaccttgg attaaactgga gctgaaatat gtgctagaat ttccctttag acctncnaag 480
cccagtgaat attttatagg gctctagaaa aaggggcttt cttctaatat ttangnatga 540
cccaaaatna atcatggtat cntt 564
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<210> 7266

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7266

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gagacagagt ctcaccatat tgcccaggct tgagtgtagt ggtgccatct cggctcactg   60
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gggattacag gcatgtaaca ccatgcccag ctaatTTTTg tatttttagt agagacaggg  180
tttcaccatg ttggccaggc tgctctcaaa ctctgagct caagtaatct gccgcctcg   240
gcctcccaaa gngctgagat tacaggngtg aaccaccaca cccggcccaa gagtttttat  300
agagcttaat ccccatcccc tattccctgc cgccctgacc cccacctngc caaaggtctg  360
tggaactgagc tgaatgggtct aaccctctac ttacttgatt tttcttgag acaggcccaa  420
ccttangcta tctangggca catgctgcac ctcattagct taaactcang gtntgatcaa  480
aaaggggctt attttgacta acaaaaagng cttcggcact tcnggaaaat ntaangnttt  540
ttggg                                             545

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<210> 7267

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7267

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gaggcagagt cttgctctgt agctcaggct ggagtacagt ggcatgctcg cagcttaccg   60
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cctgtcacca cacctggtta atttttgtat ttttagtaga gatagggttt tgccatgttg  180
gccaggctgg tctcaaactc ctgacctcaa atgattgccc accttggcct cctaaagtgc  240
tgggattata ggcgtgagcc actgggcca gccagaaatt catccttttg tcacctgctc  300

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tgagtaaacc acactatgga aagctttctc ttcactggct aaatcagtaa actgtgtcca 360
 cttctaaaag ccatccagag agaaagatgc tgattgcttt ggaagcatta aaggtcaagt 420
 ttcagcaact taacacttaa caggagccaa gagaaataag gaaaaacatc acttccaaaa 480
 caagttggca cacaccaagc ataaccngaa ctntttaaat taagataatc ccaatggnaa 540
 gantnccnaa actggcnttt ggaa 564

<210> 7268

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7268

gtagagatgg ggggtctcact atgttgccca ggctggctct aaacttctga gctcaagtga 60
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 ttttttgggt ccaatcattc acccttccct gtatctaagc ctttatcatg taactttttc 180
 attccttccc aaagaggcaa gtacagttgc tcactcccca actgatctct ggcttagcta 240
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 tacttgcaga cttgactttg ntccttgtac ctctgctatc accactatag gaaattctcc 360
 tgggtaactg ctgccccttc gaccaggtc ccagaataaa tacacgtgga gcaaacaagc 420
 tcttacctgg agtgaangag ccaagctagc tagacttgca gactgaagca caactgcact 480
 gntgagccca attgaaangc tggttcctaa nccatgnaca agcactttaa caacctatgg 540
 ttccggtggg tattaattgg aattt 565

<210> 7269

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7269

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aactacaggc atgagacaca gcatctacag gcatgagaca cagcatcttc ctgtcttttt 180
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tgtttttggg atggagtctc aactggcgcc ccaggctgga gtgcagtggg gtgatctcgg 300
cttactgcaa cctcctcccg ggttcaaggg agtctcctgc ctcagcctcc caagtagctg 360
ggattacagg cacctgccac cgnaccagc taattttttt gnatttttag cagaaacgcg 420
gtttcactat gttggccagg ctggctcaaa ctctgacct catgatctgc ccgccttggg 480
cttccaaagt gctggggata caggcgtgag ccaccgggct tgggcngggt ggttggtttt 540
ttganacagg gcttnttggg caccacgc 568

<210> 7270

<211> 272

<212> DNA

<213> Homo sapiens

<400> 7270

gagacagggt ttcactgtgt caccacaggct ggagtgcagg ggtacaaaca ggctcactgc 60
aacctctgca tcttgggttc aagcaattct tgtgcctcct gggtagctgt gattacagg 120
acatgccacc atgccctgct tttttttttt tttttttttt tttggtattt ttagtanana 180
tggggtttca ccatgttggc caggctgac tcnaactcct ggccctcaagn gatccaccgc 240
cctcggcctc ccaaagngct ganattacag ng 272

<210> 7271

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7271

gcacaacaca aagagngaac tttaatataa actatgaaca ctgnagctaa taatgaatac 60
aagttcatca gtigtaacaa agngccatgc taatgcaaca tgctaattan agggggaaat 120
atgcaaagaa naggagggat atgggaatcc ctttngcct aatttttctg taaacataaa 180
actgctntta caaataaagc ctattaatta aaacaacaaa atacaaaaca acaactaaaa 240
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tcctgggcca ctgagccctg ggcgtgaaaa gcaaacgggc cagtgagggtt tggctgggac 360
tcagctcccc agcctntggc tcaagcccga ttacgaacac aaaggtcatc tgattggatt 420
tcctgcccct cagctcactt aaggaggctt ttntgccaca agntttggtg caaaaagcaa 480
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gccc 544

<210> 7272

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7272

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taggcgtgcg tcaccacacc caactaattt ttttctatt tttagtagag acagggtttc 180
accatgttgg ccaggctggg ctggaactcc tgacctcagg tgatccgcc gcctcggcct 240
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aaccaaggcc tggctcacgt ctgccttgct catgctctcc ccttcagcga gtgcggctta 360
ctaagtgtg aatctgattc ctgccccaca acccaccagg agcagacaca gacgcagggtg 420
cacgccggca ggatgtgggt cgccgatgtg gatctagcag cccgncaaac ccgtcangct 480
tccaattgcc tncanggatc ttaaggccgg ngcttnacca cctgggagge ctctgncct 540
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<210> 7273

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7273

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tacaggcgcg taccaccaca cccagctaatt ttttctatct ttagtagaga caggtttcat   180
catgttggtc aggctgggtct caaactcctg accatgtgat ctgcctgcct cggcctccca   240
aagagctggg attacaggcg tgagccacca ctctcagcag gaggtttcta ttaaaaacaa   300
atgagatggt atttgcaaac tgcagacat tgcccaattg cattagtcca ttttcacact   360
gctataaaga actacctgag actgagcaat ttatgaagaa aaaaggttta attgactcac   420
agttctgcat ggctggggaa gccttaggaa acttactatt atcattatct tttgagaaaa   480
gcttactctg gtacacangc ttgaagtgca ntggccaatc ttggctcact gnaacctcca   540
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<210> 7274

<211> 522

<212> DNA

<213> Homo sapiens

<400> 7274

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tgcttttga agcccttntt tattgggaaa taaatncaga gttaaacagg ngggccggcc   120
aacatntgng gctttggagg ccaaaaggaa ggagtctgac ttgctcaaaa ctcaaatctc   180
catgagctgg tcattcccca cgatcacctc attcactcgt ttagctttgg cttcaatcct   240
ntggccactt ccaatcaagc agtccttgat gtctgcaccc ttntcgatca cagcattggt   300
gcanatgaca ctgccttga tattgcttcc ttcctccaca gngactgagt tcatganaag   360
gcaattggta atagtcactc tatcttttat gaaacaggat gagccaatga ctgancgctt   420

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aatggatgac tttntcaatc tgggctntgg nccaatgagg ctgcaactcc aaccaggggt 480
tgctgacaat ntgggcttac aaanggctgg ggggtntttn gg 522

<210> 7275

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7275

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gccacagaga agactttgct ccagggactc cccttaccct aggacacctg acctctgact 120
tatagcaacc tgtatcaatt agatcactcc atggcttcca tagtgtcaac aggggagctg 180
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cgaggctggg gagagaaagc actcccagat gatagatacc ttaagctgct ttgaacctga 480
gaagaagaag gtgcatncca agtcacanga tggtcattaa tgggtgngctg cattcttttc 540
acatgtaa at taaaccctg gcatacctng ggtggggggg 580

<210> 7276

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7276

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caaccttcac ctcttaggtt caagcgattc tctgcctca gcctcctgag cagctgggat 120
tgcaggtgcc cgccaccacg tgcagcta at ttttatattt ttagtagaga caggatttca 180

ccatgttggc caggctggc ttgaactcct gaactcaagc aatccacctg cctcagcctc 240
 ccaaaatgct gggattacag gcgtgagcca ctgtgcccg ccttcattctt tattgtctcaa 300
 aagcaaagat gccctttata cccgagtac tgtgcagaaa ccaaaatgca tctgaaaatc 360
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 tgggcttcag ccgtcgggtcc aggaggccca gcccaactgt ccanaatgtg acaggacacc 480
 catgtncagg actttcagtc aggacacaaa tccacaatgg cangnccttg acaaggcttn 540
 ggaaanccan cttga 555

<210> 7277

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7277

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 gcacatgcca ccacgcttgg ctaatttttg tatttttagt agagataggg ttttaccatg 180
 ttggccaggc tggctttgaa ctcccaacct taggtgagat ataagattct tgaacttaag 240
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 gatggcacat gcccgtagtc ccagctactc gggaggctga gatgggagaa ttgcttgagc 480
 ccagtaggcg gaggttacag tgagcccaga tcatgccatt ccaactncagt ctgggcaaca 540
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<210> 7278

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7278

| | |
|---|-----|
| caggctggga atgtcacttt atttgattt ggttcgtggg gtgggggtct cagaacaaac | 60 |
| tagaaggcct tacataggca gctgggcca gccagctggg ctctgaccc aggacttcat | 120 |
| tctggcctgt cccccaaag catagcctcc accttctcac ctttctccag aggagtctcc | 180 |
| tccaccccca caggagctgt ggacaggccc tgcagcccta gggaaggagg aagggtcctg | 240 |
| caagtagaca ctaaggcaca gcgcggccca ggggtcataa gggctcttct ggcggtggca | 300 |
| tctgctgggg cttccagctg ggcgggggct ccacgcaacc gctgaccatc cagaagtagt | 360 |
| ttgggtgcac ctggccctgc acggcctcgc taaccatcaa ttccccatcc actgcaaaca | 420 |
| cacctttccc atccttgggc tccaacggaa ggcgaccacg ggcacatata ccaagtaggg | 480 |
| gcattcatac tccatatgcc tggccttttt ccatggncag gaaanaggcg caacaacatg | 540 |
| gcaccgaaan acttccgncc ggacgtanaa caagatgcat gacncct | 587 |

<210> 7279

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7279

| | |
|---|-----|
| agcgcgtcct tctgccttta actgacatta ccaattccac tcacattcct agcagttcac | 60 |
| tttgtaataa ctggagatgt gtataaataa tttgtacatt ttctatatag ttcaataaaa | 120 |
| aattgcttta actcccacct ttacaattta ttagttgtat gactttgggc aagttagaaa | 180 |
| ttctctgagt tataatttac tcctctgtaa aatggggatc aagtttatta tgaggatcaa | 240 |
| ctctaattaa gtactaatcc cagtgtttac taccactgaa tgtaaataa atattggttt | 300 |
| tcctcttcca tccttcccca tgcacaatcc ctgttcccca aaatggccaa gatgatacaa | 360 |
| attgttgaaa ggcagacaaa ccattgcatg ggtccatacc cagaaaagcc tgttgggatt | 420 |
| ctgtctttga aatggcaata ggtgttaagt gatgatgtta tcattcaga tcacaaagga | 480 |
| aaaattaaaa taaaaacnaa aaccaacaca aggtatgaga agagaattgc ttcaatctaa | 540 |
| gagaacctcc anggcngaga atccagaact ctntaaccat cng | 583 |

<210> 7280

<211> 462

<212> DNA

<213> Homo sapiens

<400> 7280

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ccacaggcat tcgccaccat gccagccaa tttttgtact ctcagcanaa atggggtttc  180
accatgttgg ccaggctggt ctcaaacctc tgacctcagg caatccgccc gtgttggcct  240
cccaaagtgc tgggattaca ggcatgagcc actgcacccg gccaaacaaac ttatttttga  300
ttattcaaat aactaagctc taaaatggtt tttctacact atatttgagg nataaaattg  360
gtattatcaa taattttttg gccangccac ggnggctcac acctataatc ccccagcact  420
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<210> 7281

<211> 338

<212> DNA

<213> Homo sapiens

<400> 7281

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ccagttctct gggcagttcc tgctggtcac tgctttaatc agttgatgtg gtaaggaaag   60
gagtgggtgct ggtgccacca tgtggctgga cactcagggc ctcagccaca ctccacctcg  120
gggtcttcca catcggtttc cgcggcacag aggtcatcca gggctgcctc ttcacagtcc  180
gtcacatcag gaagccctcg gatgagcatg ctgacccccg gcatcacctg gtcaaactga  240
tgcaggacct ccacgcagtg catcatgaag agcttgnctt tctgcnatag gccgngcagc  300
agcagcaccg ngctccgnan acagngcact gtccgcct                        338

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<210> 7282

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7282

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ctgagacata gtctcactct gtcacccagg ctggagtga gtggcacaat ctcgactcac   60
tgcaacctct gcctcccagg ttcaagctac ctgaggcagg atgttcctgc ctcagccttc  120
caagtagctg ggattacagg cacacaccac tgcgcccagg taatTTTTgt atTTTtagta  180
gagacagga ttcacatgtg tggcaaggct ggtcctgaac tcgacctcaa gtgatccgcc  240
cgccttgccc tcccaaagtg ttgggactag aggcgtgagc cattgtgcct gaccaactat  300
ttccttctta gtaactgtac agcatgctat aaaatgggat aaaccaagct ttccccccat  360
atggttcact gagaacatat tcctaaaaaa aaaaaaccaa atatgcctca aagtctttat  420
tactttgcca tttcttcatt cagatctctg ctcaaatgtc acttaaaggg agataccttt  480
cttgacctct ggatcatctt agctccatca tttctgcag gtaactttgn gataaaaagt  540
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<210> 7283

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7283

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gagatggagt ctcactttgt cgcccaagct ggagcgcaat ggtgcaatct ctgctcactg   60
caacctcccc ctcccgggtt caagccattc tcctcctcag tctcccagat agctaggact  120
acaggagtgt gccacctgcg ccggctaatt tctgtatTTT tagtggagat gtggtttcac  180
catgttgccc aggatggtct caaactgctg acctgtgat ctgcctgcct cggcctctca  240
aagtgtggg attacaggca tgagtcaccg cgtccggcca ggaacctctt aacttctttt  300
gtgattttgt ggggaacaat ctgggcaaca gtattgaact aagaaagggt ttcaaccctg  360

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ggcaggtcac cacacttctt ggtactcagc ccccacccag tgatgctgtt tgaggctgtg 420
cacctgctgg ggaccgtgtg tgggtgggagg ggctccagag agtgctagag ttaatgcttt 480
tctggttaga agactatatg cttctcatgg cctcttggag ttcaacangg ccttanaaag 540
catttccaac cacagagacc cctgctggnt ttctga 576

<210> 7284

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7284

ganacggagt ttcgttctcg ttgccaggc tggagtgcag nggcaggatc tcggctcact 60
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ttacaggcac ccaccaccac gcccggttaa ttttgtatit ttagtanaga caaggtttct 180
ccatgttggc caggctcacc tcgaactccc gacctcaggn gatccgtccg cctcagccac 240
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gagcagttag ccacttggta tctgactaaa agaaggtagc aacatgttcc caatatgaca 360
atitititita atngctitaa aattcttcaa actttgcctc tgntaaatta tgnatttata 420
tgcctttatc atccaaatit tttttaaaag ccctccctit aaaagccacc antttaatgg 480
gntgaaagtt ntaatcnggn cctaaaatit ccctgaacc acagcatgtt aatncctgaa 540
taaaataaga tccctaccta aaa 563

<210> 7285

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7285

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 ctggccggcc agctctttat ttggtagcgg tccagagtgg ccaagccacc tgtccagaga 180
 cacacagcca atctgtggca gggtcagcag cgagctcagg tcagggtcgg ctggctggct 240
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 gtcccttgca gtgtcccaag agcatcttcc tgagcatcta atctgatccc tgtaacaatc 360
 ctgggtgcta ggcagtggct ttatcttcca ctgagagata aggaaatgag actcagggtg 420
 gtgaaatcag accctggaca gcaacagtgg caatgaggac tatggaaagg gaagcttgtg 480
 aacccaactt catgntgttc caaatctggg gcaattttct gaactctaata gccatttaac 540
 tgggaccaag gtttgaggaa aaaaaaaaaa 568

<210> 7286

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7286

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 tgctatccct cccctacccc ccatccccta acaggccccg gtgtgtgatg ttcccctccc 180
 tgtgtccatg tgttctcatt gttcaactcc cacttatgag tgagaacatg ccatgtctgg 240
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 cttggttgtt acctgggggt ccagttttgc acgctgcaga ggacctgcaa cttacagatt 420
 tatcacttaa ttcattcttt gcattctcct acttttctc actccaacca tttctgggca 480
 ttccaaagcc cctaaagcca gaattcattt tgnatgggtc ttaacagaag taagaacttc 540
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<210> 7287

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7287

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aacataaaca ttaccacttc tgagacttct ggaaagaaaa aaaggtgaga aggaaataat   60
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ttatacccca tctctcacta aataccaaca attcctatta gctttttaaa taagtggttg  180
gtaaatgctg ctgagaaatg aagcaacttt tcaggctcta gaggacgcca gagcaaagcc  240
taagacatct caatacttgc acaacacaca aaaccctcaa cagcattcat ttattcctaa  300
acgtttactg agtgccagac acaatatctg gcacagaaga tacagtgaca agcgcctgca  360
agagccttat aagtaaacac aagtagttct ctgacattca aaacgggaaa catttgcaga  420
ttacgtagga caccctccat ctcaagatgc tgctgcttta aggttgggga nggggctctt  480
gaaatctgca gcttaactag gggcccagct acttantaca gggctggaag ctctaccgaa  540
aaggttct                                     548

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<210> 7288

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7288

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tacaggcatg cgccaccacg cccagctaatt tttgtatttt tagtagagaa ggggtttctc  180
catgttggtc aggctgggtc caaactctcg acctcagggt atctgcctgc ctcggcctcc  240
caaagtgctg ggatgacagg cgtgaaccgc tgcaccgggg ccaaagggtc acagaagacc  300
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aatgggctta tagaagatcc ctccaggacct caggactgag aaaccatgtg gatggggaaa  420
ctgaggtctg aggccacatt cgcttaccaa tcttgccac ttgatgatcg gggggcctga  480

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tgaccagac gccccaaact tgtccaacac gtggtnggaa aaaaggcccc aanggggttc 540
ggggcttggc cagncccn 558

<210> 7289

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7289

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ggttttcagc tccatcaggt catttaagga cttctctaca ctggttattc tagttagcca 180
ttcgtctaatt cttttttcaa ggtttttagc ttctttgtga tgcgttcaag cttcctcctt 240
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ctgattttta gaattttcag cttttctgct ctggtttttc cccatctttg gggntttatc 420
tacatttgnn ctttgatgat ggngatgtac aggtgggggt ttggggggga ggcccttctg 480
gnnggtaagn tttcctttta cng 503

<210> 7290

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7290

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tcacagtcca caatcaaaca tatttttcaa atgggtatcgt ctaccatttc ttgggtaggg 120
catatagtaa taggggcaag tgagtacttc taaacacaat atacatatag aataattacc 180
acatataagc attagaatac tttttttttt ttttttgaga cacctagggt gtcacctagg 240

ctgtcaccta ggctggaatg cagtggcatg atcccagctc cctgcaacct ccacctccca 300
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 caaagtgttg ggattacagg cgtgagccat catacccagc ctacttttta aaagataaag 480
 gncctatagc ttacatcaa agctgaatga ccatncaatt ggatccatct tttaaaagcc 540
 ttaanttata gcn 553

<210> 7291

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7291

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 caagctctgc ctcccagggt cagccattc tctgcctca gcctcccag tagctgggac 120
 tacaggtgcc cgccaccacg cctggctaatt tttctgtatt tttagtagag acggtgtttc 180
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 caaagtgctg ggattacagg cgtgagccat ggcgcctggc tgcccatttt taaaattttt 300
 attattattt ttctttcatg tcagacaggt aatgtgccaa tgtcataaaa ggtttggggg 360
 cgacatacct cacacatgtg tatgaacact caatcatcat gcttatgaac tacaaaagga 420
 tcataggcaa gagttcaaag gatggaaagg aagtgaagga gggtgcaatt gtggtgaatg 480
 tggaagtgaa aggcgttcag gcngaaggcn caacttntac agangcatta agccttagac 540
 atatggctgg aag 553

<210> 7292

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7292

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aagagttaac gatctgttgc ccaggccgga ctacagtggc acctccttat ctcggtgaag   60
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agacatgaac cagcatgcac ggctaactta aaattctttt cttctagaga tggggctctca  180
ctatattgcc caggctggtc ttgaactcct ggtctcaagc aatcccccca cctcggactc  240
ccaggttgct gagattacag gtgtgagcca ctgtgctggc tgaattccag aactgtttca  300
tcgccttaaa tggaaacccc gtccgcatta gcagtcaccc ccgtctctc caaccacaca  360
tccatgcata ttctctgtgg atctgcctgt tctggaaatt tctccttttt tttttttttt  420
ttttgnnttg agacagagtc ttgccctgtc gcctaggctg gagtgcagtg gtgcgatcat  480
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ggggaat                                         547

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<210> 7293

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7293

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gagatggagt ttgcacttg ttgcctaggc tggagtgcaa tggcacgac tcggctcact   60
gcaacctcca cctcccgggt tcaagtgatt ctctgcctc agcctgccaa gtagcgggga  120
ttacaggctt gtgccaccac acccggctaa ttttgtatit ttcgtggaga gaaggtttct  180
ccatgttagt caggctggtc tcgaactccc gacctcaggt gattggcccc cctcagcctc  240
ccaaagtgtt gggattacag gcgtgagcca atgcacccag cttacgtct ggttttcatt  300
gagccctagg gtttggctca aacagtgtc ccagtagtct gaggtgcaag gccttggaaa  360
ccaatggaag gagtggggac cggtgggaag ggatgaaggg cctgagactg ggggtgaagcc  420
aaagcaaact gtgcaggaca aatggaatgg tggangccaa gatgcatttt gcaaaaaactg  480
gtttgcacaa cttggagtca agcccttgca ngcagaaaac acccctntgg tggttccttg  540
gg                                         542

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<210> 7294

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7294

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 cttttgaaa actctgtaat attccatatt tcacagcgtg actggagaaa gtagatgttg 180
 ggatgaagtg ggaaacctga tactcaccca ccaagacagc cgtatgcttg tgagcggggt 240
 caaaggggct ttggcctttt ccctccatga ccttgtcctc cgagatgggc aacaggtagg 300
 aatcttgaag ttcctaaatg gggagagagg ctggggggcc agaacgcaa ggtctcacat 360
 ctgggaaatg aggggcttga ggaaggaagg gaaagggaca tagagggaaa ttggtctggg 420
 gccaggaagt tcatganggt cctgcatctg gaaaggccag agttttncag agcttcagan 480
 gaaaagtent gggtagatgt naaaagggat gcttgggggn cttaccctt gggcaccaan 540
 aacttaccat ngaagg 557

<210> 7295

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7295

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 ttctttttaa aatttgtttt tttctttttt gtttcttttt ttaattctat tttagttttc 180
 tgagaaatct ccatactgct ttccataata gttacaccaa ttacattcc caccaacagt 240
 gtatgagagt tccctcttct ccacatcctt gccaacatct gctattcttt gtctttctaa 300
 ccgccattct agctaaggta agatgatata tcattgtagt ttgatttgc ttttcctta 360

cacttagcaa tgctgggcac tgttcacata cctgtttgtc atttgtatgt ctttttttga 420
 gaaatgtctt tttatgtcac ttgcacactt ttttaagtggg attattgggt atttttactg 480
 gtcaagtggg ttggattcct caaatattct ggggatcagc cctttcttgg atgaatagtt 540
 accaacattt tct 553

<210> 7296

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7296

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 agacaaatct gatctctgcc tcctccacag cgccaccttg ttcagggcag gacttctctt 180
 catcacagca catccacct tgattcccat ttgngcctcg tgtgcatttg atgaacgaat 240
 gaagtcccat cccctactcc ttctgtctcc tccttctctc cagcagcctc tgtgtgacaa 300
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 ctgggctctc ggcaccctgc acagggcagg cccgggtggg tgaattctgg ttcaattgta 420
 ggaggacctg tggccccctgg ggttggcgaa ccccgggccg ggagtccac tccttggcat 480
 tgcgnccac acattcatca gccctattg gacaaaggct tattccatta ctgnggggtc 540
 tttcagnccn 550

<210> 7297

<211> 451

<212> DNA

<213> Homo sapiens

<400> 7297

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ggtatctatt cggcttctgg agaggcctta ggaaactttc aatgatgggtg gaaggtgaaa 120
 gcgtagcagg cacgtctttg cttttttttt tttttttttt tttganatgg agtctcgctc 180
 cttcgcccag gcggaagtgc agtggcgcgga tcccggccca ccgcaagctc cgccttccag 240
 gcccacgcca ttctcctgcc tcagcctccc gagtagccgg gaccacaggc gcccgccacc 300
 gtgcccggcc aattccctgt attcctagta nagacggggt ttcaccgtgc tagccacgat 360
 ggctcgate tcctgacctc gtgatccgcc cacctnancc ccccaaagtg ctgggaccac 420
 aggcntgagc ccccnccccg gcccnngcnt g 451

<210> 7298

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7298

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 acaggcacgc gtcaccacgc ctggctaatt tttgtatttt tcgtagagac ggagtttcac 180
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 tagctagata ctactgtcat gtttcaagat ggctcactta aacctgtact tctggcagga 360
 aagagaccca aacctatgaa gaatgagata catgtacagt tttgattata aaaccaaaga 420
 ataatggctt cacaagatga cggctgggct cctgggctgc cttcagtgnc tttaaacagg 480
 taatacagat cttgctttct tctctctctt tttgagaaan cttgctgnga cagacacccc 540
 cccagggg 548

<210> 7299

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7299

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| aggagtaatg agagattggg cagagggtaa gggacagcag ggaggcggag gaaaatgaag | 180 |
| acaccagga aagaggagag gcctgaactg gacagctgat gctttgtcct gcccagcacc | 240 |
| cattcgtccc ttcttcaggt aatatcatct gccaccacaa ccaccagcac caactctcag | 300 |
| tctctgtggg tacatgccag gcctgtccat ttgngtatt ccattctcct ggccacaatg | 360 |
| atgacttgag gctggatacc ttctcgtct ggaccaatga gaaccaaata cagcagttct | 420 |
| gtcagcaaag gggagctctt ttatcaata actggtgctg tggggccaca ctgtgaagcc | 480 |
| caagaataaa gccactcaaa tgaaaccnac tgagagccaa gagacagata ctggttggag | 540 |
| gcctg | 545 |

<210> 7300

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7300

| | |
|---|-----|
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| aattatccac ctcttgata ctctcctgta gtcctctgag taagctcaa actcaatcca | 120 |
| tactccaagt aacagactta agatgttcaa tatttgaact ctttggcctc aactaaaaaa | 180 |
| gaaaccttgg taaaagcaga atttacaac attttgttcc ttgcagtaca cttttcaaaa | 240 |
| gacatcttca tcaaataggt aagaaaggta agaattgctg aggtaatag aggtctcttt | 300 |
| tattatggtc ttcatctat cattattaaa ccctaatact atgtcctgtt ccaaagcatt | 360 |
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| caaaaccgac tgcgccagcc ttggcgaagc tccgcctact gccctttgct ccaagtaatt | 480 |
| tttggcgatt tttaaagtaa tttttccggc ggagtcatan tggcgctata ctcttgata | 540 |
| nggtatcctg gctct | 555 |

<210> 7301

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7301

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cctcagctga tgacctccag acggccgtca actgtgcctg aagtggacgg tgtcatgcgg  420
tatgaacaga taagtgagaa aagaacccat gtagctctaa acccacacac actatgaaaa  480
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<210> 7302

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7302

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cgtgcctggc ctccttatga gaatctaata cctgatgata tgcactgtc tcccatcacc  180
tccagatggg accacctagt tgcaggaaaa caagctcagg gctcccactg attctacatg  240
atggtgagtt atagaattgt ttcattatcc attacaatgc gataataaag tacacaataa  300
gtggaatgtg cttggattat ccccaaacca ttccccccac ccccgaccc ctctatccgt  360

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agaaaaattg ccttccacaa aaccagtccg tgggtgccaa aagggaacca ctgccttggc 420
 accaagtcta aaacaacact cttggcatgt tttcttatcc tgctttttct tcctggaact 480
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<210> 7303

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7303

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 tgg 543

<210> 7304

<211> 480

<212> DNA

<213> Homo sapiens

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<210> 7305

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7305

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 aataatctct taattaaaag gctgggtctg gcacagatca actgaatatt gcttaccact 180
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 ctgctgcttt aatatattca ggccaaattc tttttccct gctcctgcat cccttaatca 360
 ctgtccaagc ccaacgaaac aaagttttag cctcctggga aactaataac tgctatactc 420
 cagggaaggt tttgtccatt gnactacagt ttctacatct gcttctccag atccattctt 480
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<210> 7306

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7306

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cccaagacag agtccttactc tgctgagtg agtggtggga tctcagctca ctgcaacctc   60
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catgtgccaa catgcccagc taattttttg tatttttagta gagacgaggt ttcgccatgt  180
tgcacaggct ggtctcgaac tcctgagctc aggcaatcca cccaccttgg cctcccaaag  240
tgctgggatt acgggcatga gccatcacac ccagcttata cttctatctt taccagctta  300
gattgggttt taagtttcct gcacccagaa gggtcctaac cactacacaa tctaattggt  360
actgtcacc acaaatgaca gtgggttggg tacattgatg attattaca ttattatct  420
catgccgatt gtcataaaac caaattattc ccacctccat tttttctct cctnccgacc  480
atcatgggcc cccaaacttt tgctggcctg taaaaagcac tgggcttnca agtaaggana  540
accggggttt                                     550

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<210> 7307

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7307

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ggagacagag tgccactctg gcacccatgc tggagtgcag tggcacgac ttggctcact   60
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ttacaggcac atgccaccac acccagctaa tttttatatt tttagtggag atggggtttc  180
accatgttgg ccaggctggg ctggaactcc tgacctcagg tgattcacca ccaccccccc  240
acccccccag ctcctaaagt ggtggaatta caggcatgag ccaccgcca ggccgaaatt  300
atcacttcta acacattcct ggggtgttgc gatgctgcca gtctggagac cacactttga  360
gaaccactgg gtttaatttag catctcatgg ggagacagct gtgctatagt gaaatgagta  420
gacccttgag atctacttgg acacaaactt ctggggcagt agttctcaat tgggctactt  480
cacttttggg gtcacctggg gagcttttaa aattcttgac ccttgggntt caaccagac  540
caatttaaag ggga                                     554

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<210> 7308

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7308

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gagaaggacc ttctctcttg ttgccaggc tggagtgcaa tggcatcatc ttggctccgc   60
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caccaccatg cctggctaata tttgtatatt tttatacgta gagaaggggt ttcaccatgt  180
tggtcaggct ggtctagaac tcctgacctc aggtgatcca cccacctgg tgtcccaaag  240
tgctgggatt acagggtgtga gccactgcgc ctggccaact ccactgttaa ggcagcaggt  300
gcaggcaagt tacggctatt cacactcctg cagataaaca cagaagtcac cataccacaa  360
ctattctcct aacgctgcct tcgtcctgag cttcctgtgc tagtggcaag tcagatgcaa  420
ggaaaatcca nagtaaaaat aanaaacaat aacaggcaca gtcttatcaa gactgtgaaa  480
ccctgtgaac cctgngaaat gaaaatgaca gaagnatggt ataaagccng aatttnangn  540

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<210> 7309

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7309

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gagacagagt ttctctcttt cgcccaggct ggagtgaat ggcgtaatct cggctcactg   60
caacctccgc cccaccgat tcagggtgatt ctctgcctc agcctcccga gtggctggag  120
ttacaggcgc ccaccaccat gccagctaa ttgtggtatt tttagtagag atggggtttt  180
gccacattgg ccaggctggt cttgaactcc tgacctcagg tgatccacca gtctcagcct  240
tccaaagtgc taggattaca ggcctgagcc agtacgcca gcctcaaggt taggttttaa  300
atgatatttt tcctgcactg tctcgagtta tctcttttta ccttcacca catagaaaaa  360
gcaaaagttc agcaagacac ttagtaactt ggggggcatt atttgattct ccttcctttt  420

```

ctttatccac attcttcggc cttcactcca tgatcgtcag actcagaaat acctgggcta 480
 gatgcccac ccangangaa gccanttgcg ctgcaagggtg aaacacttct ggggaaggaa 540
 aagtggcctt caatgccttt 560

<210> 7310

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7310

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 actgaagaca cacgaagggtg aatgctgaag accatcagag tcccagcagg aggtcacgtc 180
 tttcattcag acgctccaat gcttttcatt tcagtttggt aaagaacgtg ttttacagga 240
 agttctttac agtaatttca tgccagacac caggtttctt cgatggtaca cagctccatg 300
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 tgggccgtag agacgtaaaa tggtcagatt cctttaggaa taaatgagga aaaggagagg 420
 aaagagaaga tctgggctgt gctggtgctg gtttctactc atctttcgga nggtgtgact 480
 tcaagagtta aatcacactt aggcctaca atggattagt ctaggtatct tttttttaag 540
 aagattaataa gggaagggtt ccat 564

<210> 7311

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7311

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 aacctccacc tcctgggttt aagcgattct actgcttcag actcccaagt agcttgggtt 120

acaggtgacc gccaccatac tcagctaact tttttgtatt tttagtagac agcgggtttc 180
 accatgttgg ccaggctggc gttgaactcc tgacctaaag tgatctgcct gacttgggtcc 240
 cccaaagtgc taggattaca ggcatgagcc accacacccc accaggcata actcttaata 300
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 ttagcatgat cttttggttg ggctaagagc atgttataaa ttaatatattt attaattaca 420
 ttgaacagta gtgtgtacaa taaatatctt ggatatattac gaagctttaa tgactgattc 480
 caaaatgatg atttcagagt aagcatggga atctcatcan gccttcatct ggagctcttt 540
 ttccaaagta aatagtt 557

<210> 7312

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7312

aatttttagt acagacaggg ttccaccagc ttggcaggct ggtcttgaac tcctgacctc 60
 aagtgatccg cctgccttgg cctcccaaag tgctgtgatt acaggcgtga gacaccgcac 120
 ctgggctcaa actaagaaat attaaaattt tcttcctttt aagatttaga gttaaaggcca 180
 aataagcaca ctgatgtctt cccctcttct ataagittaa aatgaaacct gaaagcaggg 240
 tcgatgatta aaagctgatg ttcctaacta gtcttttatg gactgccagc catggtatgc 300
 tctcaaattc ttctgatgtt cctttactcc taattgaatt gtgaatgttt tattatcaaa 360
 attcacaaaa ttttgataga atgtgccaaa tatttcctga gttacaattt ctcatttaga 420
 aacatttgc ttaaattctc atacatatcc aaaactgttc tgn cattttc ctgttgacta 480
 ctttttctac cttgacttga gatctccaga agagatatcc ttggtggtaa caagaaaata 540
 agctaanttt aaang 555

<210> 7313

<211> 303

<212> DNA

<213> Homo sapiens

<400> 7313

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gcactttttg tagagacagg gtttcactat gttgcccacg gngctcgcga agtatatata 60
ctcaagccat ccacctgctt cggcctccta aaatgctggg attacaggca taagccaccg 120
ngcctgcctc cagnagagaca tttttaaggg gnggctccat gcatttgaag cttccaaaca 180
cccaacagaa tctcaccagt caccaataac caagatcctn tctgatcctg ngctaganaa 240
atccttaaag gaactagaan aatttccttt gncitttttt tttttttgan acggagtctc 300
gnt 303
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<210> 7314

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7314

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agtggagatg gggtttcacc gtgttagcca ggatgggtctc aatctcctga cctcgtgac 60
cgcccacctc ggccttccaa agggctggga ttacaggcat gagccaccgc acctggccac 120
tttcagtaat attttcta atgtgtttct aacaagtacc atgcatctca gccaaactgt 180
gctactgacc tccaacacac cctgtgggtt tgaaactcag agcctttgct tcccagggtt 240
tacttcatct ggagtatcac tacctaata cttccctctc cccttggtga aaacctgccc 300
gtatttcaag actctctttt tctatagtca tgcattttgt ttcagattta tgtattagct 360
accttatctg gggtctcatg acctgttctt acctgtctta caacacttga tcacatacat 420
tctattttcc ccttaaacta taaactgaaa tgcaaagaca tgtttttggt ggggactcat 480
gtgacagtat gccataaga tttgaaacca tttaaaaatg gttgggtggt tggtgattga 540
aaaccatata aatn 554
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<210> 7315

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7315

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gttgcttcaa gacagtctgt caccaggct ggagtgaag tggcgcaatc tcagctcaca   60
gctcactgca acctccgct cctgggttca agtgattctt gtgcctcagc ctcccgagta  120
gctgggacca caggcacggg ccacatgcc cggctaagt ttgtattttt agtagagatg  180
gggtttcacc atgttggcca ggatggtctc caagtcctga cctcaaatga tccgcctgcc  240
ttggcctccc aaagtggctg gattacaggt gggagccacc gtgcctggcc ctgactctac  300
aggaaaaatg catttggtaa catgtttttg tagtgtgccc ctcaacacta caaggtgttc  360
cttgtagtga cccagcggt cctgaggctc acgtcccatc tcacctgact tctcagcaag  420
taaccactcc ggggcccttt ccagctccag tgaatccgac ccctnctgac atcctcttag  480
agttttcccc aacaattttt ttacaattt attatttact cattaatttt agacagggtt  540
ttgctctgtn                                     550

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<210> 7316

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7316

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aaaagatgga gtctcgctat gttgccagg ctagaatcaa actgggctca aacgaccctt   60
ccaccatagc ctctgagta gctgggtcta caggcacacg ccacatgcc aggcctgaaa  120
ggagatttta aaatgagata gataaggag caaaagtgag cacattacta ttcaggagaa  180
agggactaca cagagagctc tccagggaaa ttttaaagag gaattacagc ccaagaggga  240
atcacagggc aaatatgaga agaccctgag ttccgccagg gatctgctca gagggaggag  300
tcgcatcaaa atcacgttcc ctctctgagc cctagtttcc ccaattataa aaacaggccg  360
ctgaatgtct actatctagt aagttcattg tgaataactc tgcaacatgt ggctgttaaa  420
actactcttc aagatgaaga aaatagtttt gtcagttgtg ccactgataa ttctgcctca  480

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ttcatgaaa gggacagagt actctgacat taagaaaccc ttgggaccat tggggcaggg 540
ttnaaactac tctgct 556

<210> 7317

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7317

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ctcttgcccta ggccctccaa agtgctggga ttacaggcgt cagccactgc acccagccta 120
gtacctcttt tcttgatcca agttctactg taaaacattt ttggcttgaa agaataattc 180
tcaagttttc tatgctaaaa atgactgaca attttttcac atgaccacag aacaaacctt 240
gggcactctgt ataccactta gtttactaaa gttacaacat ggtgttgtaa ctgaaataaa 300
tgatttaata acttattcaa aactctttgg gaagagtcc tccaggattc ctacatgagt 360
ttgaggcgct tgtccaagga tggggagaaa aatgttgtct gttgaaacta ggagtcccaa 420
caggagctgg cccttgagg aaaacccttg ttcctggat gccggaaaaa cttgccagag 480
gagcagaaga ggaagatggg ggagctgctg atgggtcaatg gatgnaaccc tgaaataaaa 540
caggtccaag acatccn 557

<210> 7318

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7318

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gcaacctctg cctcctgggt tcaagcgatt ctgggattac aggcacccac aactacgccc 120
agctaatttt tgtattttta gtagagacgg ggtttcaccg tgttgccag gctggctctca 180

aactcatgat ctcaagtgat ccacctgcct cagcctccca aagtgccggg actacaggca 240
 caagcccctg caccocgcca aaagtaggta tcattatcct cattttacag atgaggccaa 300
 gggctactcag agaggttaag taacttgccc aaggtcacac agaattcaga atttacatcc 360
 agggtgagt cgatagctag aactttcaac cactccattc ttgggggcat ctcactgttg 420
 ccaggacatt accaacagaa acatttggca gatagggaat taggttttct tccccaccc 480
 cgatcctata ctgggagaaa ataagaacct ttncoccgaa cattgggttat cagnengatt 540
 caaccocggct ggcgnc 556

<210> 7319

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7319

ggtagtgagg ggagcgcggg agagacgaaa tctcactgtg ttgccaagc tggctcctaaa 60
 ctgctgggct caagtgatcg tcttgccca gcttcccaag gtgttgggat tacaggcatg 120
 agccaccatg cctggccccc aaattctttt ttgttggttt gtttttgaga cagtctcgct 180
 ctgtcaccca ggctggagta cagtggcaca atctcagctc actgcaactt ccgcctccct 240
 ggttcaagca attcttctgc ttcagcctcc tgagtagctg ggactacagg catgcaccac 300
 cacgcctggc taattttatt tttttgtat ttttagtaga gacagggttt caccatgttg 360
 gccaggcttg tcttcaactc ctgacctcat gatccgactg cctcagcctc ccaaagtgtg 420
 gggattacag gtgtgagcca ctgtgcccgg gctttttttt tttttttttt ttgagatgga 480
 gtttactct tccccagc ctggagtcc agtagtncag tntgggaact caagttnact 540
 gnaaccttgn ttttcaatt 559

<210> 7320

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7320

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| cttttttttt | tttcggagag | acaaaacaag | aactagagtt | ttaatgataa | taaaagcaat | 60 |
| aataataaaa | gcaataacaa | taaaaacaag | atcagactct | cactggggta | ggcaagggac | 120 |
| tgaggaggtg | aaaccaaccc | gtatggtgtc | ccagcacggc | acctgctaag | gagggaggggt | 180 |
| gggaaagccc | aggccttcgt | tgcgggtaca | ggaggatgca | ggagagggct | gaggtggggg | 240 |
| aggaacaact | ggtgtactgg | gagagagatt | tgggacgagg | gggaaccatc | agcaaaaaat | 300 |
| ggagccagga | atcacagtaa | gggcgcaagg | gctgaggcca | gttgtttcca | taaagaagac | 360 |
| tcaatcatta | caaaaataat | ttttagtagt | taaaaaacac | acatagggcc | aggcatgggtg | 420 |
| gctcacacct | ttaatcccag | cactttggga | ggcctgggtg | ggcagatcac | caggtcagga | 480 |
| gttcgagacc | acctgggtcaa | catggtgaaa | ccccgctctn | tactaaaaat | tcaaaaaaat | 540 |
| tancctgggt | gtggtgggtga | accacctgta | atcccacttc | tn | | 582 |

<210> 7321

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7321

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| ctttttaagc | ccaggcttta | ttccagcctn | tttttgagga | atttgactga | aaagttccct | 60 |
| ccctntcggc | tgatgcgccg | tcccatcctg | ggctcctagn | gtagggctcc | tacccttggc | 120 |
| tccagcaatg | ctgatgatga | gngctgggg | tccccgagga | caggaggcct | ccaggaagga | 180 |
| accggcctca | gtccacgccg | tccagggact | gnggctntgc | cctntcgagc | tgtagcacct | 240 |
| gattttctat | gcaccgaaac | tgccaaggcc | agcttgtgtt | gtacanaaat | ggtcgcagat | 300 |
| caaacctgtt | gtcctcaggg | ctgtagttct | cggcgtggta | cncgggtgtg | agcgtgggtca | 360 |
| tcttgtgtct | gttcatggag | tacttggaga | aaaaccgctt | cactttgtca | gcgacctgtc | 420 |
| tcgggggtgca | aatgtgtctc | cacatgccga | ggagtttgca | aaacatgcct | gaagggccca | 480 |
| attttgggcc | cnnttctnag | gtttcccata | naccganagc | tcccaaatgg | gaatcccaat | 540 |
| ttt | | | | | | 543 |

<210> 7322

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7322

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cagacagggt ctcactctgt caccagggt agagtccgt ggtgtaatca taattcactg 60
tgccctcaac ctcctaggcc caagccatcc tcccacctca gcctcctgag tagctggggc 120
tacaggcatg ggccaccatg cccggaaaat ttattttatt tttattttta gtagaaacaa 180
ggtctggcta tgatgccag gctgtcttga actcccgcc tcaaagatc ctgtcacctc 240
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gcccagtttt atcagaaata agttctgaat gtattgtcaa ttgtgaaaag acaaaagatc 420
acagttccta atattcagtt ctaatggcat gggtcccaa aatgtaaaag ctgtgactga 480
gacaattatt tcaagagagc ttcagctgta aataaacnca aactggaatt ccttggcctg 540
gcaaacaaga gggccacttt t 561

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<210> 7323

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7323

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ggcacagggt cttgctctat taaccaggc tagagtgcag tggcatgac acagctcact 60
gtagccatga ctgccaggc tcaagtgat cteccactt cagcttccca agtagctggg 120
actacagggt tgcaccanaa tccctggcta aattttttgt tgttgttttt ttagagaca 180
ggatctcgct atattgcca ggctgatctc gagctcctgg ccttaagcaa tcctcccacc 240
ttggccaccc aaagtactgg gattacaggc aggagccaat gcactcagct cagttttttt 300

```

ttttttttgg ggggggggnt ccagcggtat attttatttc tttagaacat cggttgcaaa 360
gctgtttana tctttcaaaa acatcaactc ttctttttga cgacaaaatg gtgaataaat 420
taaattcaga actacagttt gtgaagacac atgacattta tgattcatga aatagaaatc 480
atgnnctgct aaaataaagt ttnaactggn aaaagcnnat ttaattaaaa ctgn 534

<210> 7324

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7324

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tgaaatcgag atttgaagca gtggttaaaa tataaactca taggggccac tcccttggac 120
agtgtccccc ccagcccaga cagtacaatg gctcagaaat tacacataga aatgacactc 180
ctccctccac cctcgccaag agctctgaac cgcaaggccc cacacaagaa actgaatttc 240
agtttggcac caagcacccc ctcggcccct gcctcctctc cacccttctc ctgcattcta 300
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agacagcacc agaggctgct gcaccagaag cttcggggcg aggcccagca cccactgtgt 420
ggcccagctc tggggggcct gccttgccct gcccctcctg gttcaccttc cccacaacag 480
ancggncgac acccactgac ttccccagat tggaaagaag accaaaggtc caaggataac 540
gccggcgcct tccttgggta 560

<210> 7325

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7325

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aacctccatc tcccaggttc aagcgattct cctgcctcag cctcccagat agctgggatt 120
 acaggcgccc gcaaccacgt ctggctaatt ttgtatTTTT agtagacacg gggtttcacc 180
 atgttggcca ggcttgtctc aaactcctga cctcaggtga tccgcctgcc tcagcctccc 240
 aaagtgtgg gattacaggc atcagccact gtgcccggcc tatcttagaa gtcttaatga 300
 ctggctacca ctgtcagaat aaaagcaaaa acaagcagct tgcaaaaggc aactcctctc 360
 ccagcacaat agcatttttg ttcaatgcta cttgtaaaa atcttttact tcactccaaa 420
 tcaatgcagt tttaaataac tggatttgaa catttgtgga aagaacaagg gatgtcgaac 480
 agggataggg aaggatttta cattggcaaa agcatgangg cctgcctgtt tcagggcattg 540
 gctntgaaaa gcttcca 557

<210> 7326

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7326

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 cccggcgcg cgcgggccgg ggggctgana agggcctggg tgcctgtcgc cggggagccg 180
 aggtttcccg gcctcccctg accccgggcg ccaagagcag tcggtcccc cggcctcccg 240
 ccggcaaagg ggccctgggg cccaggcgtg cggcccctgt gtggcggcag gcggcccagg 300
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 cggcccctca acacccaca gtgtggcact ggaagggacc taaaaacca cctggctttc 420
 tccttttccc ttncccacgc ttnccaaggc ccaatgccgn atnttaattt cgcttttcng 480
 gaaggfnaag ggttaaaagg ggagggaattt ttaaggngg 519

<210> 7327

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7327

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agaaagccaa gttagtgtga atgatggaaa aaaagatcta catattgatg cttaaccaaa 60
aatctgaaaa tgtgactaaa ttaagaatgg aatgttaact agggtagaga ggtctaaaat 120
atacttttaa aagtgatcag agaggcactg tttcatcaat accctgtaat gatttgcgtt 180
tgaatctagg atactcacag atcatggacc atatacacct atttacaac attaaaggca 240
gtctaagttt agactgatat acataaagtg aataattact tttgaaatga tactattgaa 300
gtagacattg atatacttat tagacctttg cctaagagaa aaaaaaaac ctcatTTaat 360
gaaacaagtc aactgccaaa tctgtatgaa aatttatatt gcattatgga accaaatata 420
atgttacatg taaaacacaa ttaaaatcat tatcacagat aataaaactt accccaacag 480
aaacttaatg ataattacca aaggggcaac tttgnatggg ttggnTTTTt tattccacag 540
ggagcctatt tt 552

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<210> 7328

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7328

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gngcagagct actggctana agtgcagtca taaaggagca gtggaaggca ttggtctgaa 180
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ttggccctgt taggacagcc aaggtgaact caaggccatg aacgtgtggc tgaagggagt 420
gaagaacagg aaggccagtg gactttaagg gcctantaga ccaaaaaggg ccccagggcc 480
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<210> 7329

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7329

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gagacgcagt ctcgctctgt agcccaggct agagtgcagt ggtgcatct cagcccaccg   60
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tacaggcgcc caccaccacg cccggccaat tttttgtatt tttagtagag atgggggttc   180
accgtgttag ccaggatggt ctgactctcc tgacctgtg atccgcccgc ctgggcctcc   240
caaagtgctg agattacagg cgtgagccag gtgcctggcc ccagagtac aattaatgtt   300
ggcatgtgag gtggtcaggt aagcctacca aaaacgacca ctatttaagg agtgaagtta   360
ataaataata acaaacactg taaagcaaaa gaggcttatt atttagagag atataccaaa   420
aggaactgga aaagttgaaa atgactgctt ctaangggct tgggaaggga atgggggaag   480
gactgctggt tttcataaaa agcctaagga cttgatgggc tgggatgcna ctataggggn   540
ttt                                                                    543

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<210> 7330

<211> 532

<212> DNA

<213> Homo sapiens

<400> 7330

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gaggcaagag tcttgccttt atcaccagg ctggagtgca atggcacaat cttggctcac   60
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attacaggng cccaccacca cgcccggctg atttttgcat ttttagtana gaanaggttt   180
cgccatgttg gccaggctgg tcttgaactc ctgacctcgn gatctgcca cctcagcctc   240
acaaagngct gggattacag acatgaacca ctgcgcctgg cccgtctctc atcttaatgc   300

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ctttaagctn tttacaatcg tttgagggaa aaagttatct tcacacttcc tccagtaata 360
aagggaaagc tgcataaggat ggtggtggtg actggccaac ttcaggtccc agaaaaatctg 420
gaaaggctgg agattncagn gagtgggaac tcganaaggg tagaatttgg agtggctnta 480
aggggaggcc ttttcccaaa ngggaaggcc cctgggtang gccaatggg at 532

<210> 7331

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7331

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tttaataaca ttgaggtttc tttttgtctc ttatgcctgt gtctgtcttc ttcattctct 180
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aactgccggc tatgtaaaat ttcccaaaca tgccaagaga taagaatccc acatgacctt 480
ggtaaaaaaa gcagactcct agatcacccc agaccaactg aaatcngaata aacttgaaaa 540
aggggcctaa n 551

<210> 7332

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7332

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 tttcccactg ccctatttta caaacactct tagctctgtc tcctgctctc ctctcctcca 180
 ggaagctgga gaacaatcca cgaacagtag tgactaanat ggcccctaata gaccatatgc 240
 ttgtattatg gccttccctt gagtatgggc aggatccatg aatgggatgg aatacattcc 300
 tttgattaag ttatgctgtg tggcaaaaga gattttgcag gtataaagtc cctaatacagt 360
 tgactctgag ttaatcaaaa gagagctttt cctctgtggg cctggcctaa ttaggtgagc 420
 cccttcaaag agggctggag gctgtcctga agacagagat tctttgggtg ggttttgaan 480
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<210> 7333

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7333

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 cagcacagct cccaggagca cagccagacc ccaaccaggt gtgggatgag gggtggatac 180
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 ctgggtgggag acagggcctg ctgctgagcc cctctgacca gagggtctt cctgggttct 360
 gtgccaggga cagaaagggg gtgtggatgc ggaggctggg caacacttgg ggctttgacg 420
 catagtgcag acgacacaca gcgcctatgt aagggcctgc tggaggaacg ggaaccgta 480
 tnccattagg actgtgggct tgggtcact tattgcatca gcttgacttt atctntggct 540
 gnattttaaa ag 552

<210> 7334

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7334

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tacaggccca cgccagcatg cctggctaata ttttatattt ttagtggaga cggggtttca 180
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tggtaccatg gagtaaaaag aacctctggg ctgcattcga tgagaaactc gaggtgctgg 360
tacagctaac tgaggtaaata tactgggtgc ctgattatca gcagcaacca ttctgggtga 420
tgtcaaagtc aatggagcag gttctgagtt agatgccaaa ngcatttgac ataggactta 480
aatcagacac cctggattgg ctgggncttc tcttgggggt actgggaant tggaatggga 540
ctactggatn ggnaaa 556

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<210> 7335

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7335

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agacgtcaac catcgcttta ttaaggctgc gagtcggggg gctgagtcac gcactccaca 60
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atctggggcca caatctaggg tgagccaccc acagtgcctt gctggacagg ggggtatgag 180
gactgcacgg gggggccctc agcagggtgc ttctgccta ggggtggggt ggctccagt 240
ggctcctgggc tcaggcaggg ggggtggcag ggaggcaggg acatcccccc gccctctggc 300
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tgaagaagag ccccgggagg gagcaggcag ctctgtgcct ggggcctggc cagacctcaa 420
gggtgctgtg gcctgtcctt gttccctca cttctccagc aatgggtctn cttcaatgga 480
ngtaatcact taaaaatgga cccgaacacg ttttggtnac aancggcgtg gcaagctttn 540

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ct

542

<210> 7336

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7336

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ggtgagccgt tctgcctaag ggaacagccc cgccccctcc ctccggctcc tccccagcac 180
cgtctcctcc acccagtggc ctggccgtgg atgctgcctg tggcccagct ttgagacacc 240
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caaaagccta tgagggtttt ttccacgatt ccgttcccag tttggctttt gttgttggtg 420
tggtgtttct tggccccctt gggccctgca gtggaatggg gggctgacct gggacctnga 480
actgaggcca gcccctctgc ctgnattttc tggcaacana actgagaatt tgaanccatg 540
cctatt 546
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<210> 7337

<211> 459

<212> DNA

<213> Homo sapiens

<400> 7337

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ccatgctcag ctaatTTTTT ttaactttta agtttttttg agagataggg gctccctgtg 120
ttgaccaagc tggctctgag ctccctgggt caagcgatcc tcccatcttg gcctcccaaa 180
gtgctaggat tacagacttc agccatcgtg cccaacctg tctataaatt cttaagact 240
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cctcccactg agtaacagag tctgtttctt ccccttgaat ctgagccaaa cttagtact 300
 cagactacag tagaaatgat tctatgggtga cttgtgaggc tgggtcataa aggcaatgtg 360
 gcctgactca tgggagtcct gagctacagt gtaagagggtg tcaacactnt nagctgccat 420
 gctgtgagga ancccaactg gntnatgcnn agagacaac 459

<210> 7338

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7338

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 cggctgctgg acaagctgtg tcaggagagtc actctgcggg ctgtggctcc ccagtgcacat 180
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 tcgtcgaagg taaatgctgg agtcactgtg actagtcctg gaaggaatgc tgtagtcgct 360
 actgtcttct tctagggtcat ctgaggattg aacacttcct ggtgctacaa atagtgaact 420
 ttctacgtgg tccacatgtt tccttttttc ctttttttta ctactgattg attctttcgn 480
 tacattttct ttttaaggggg ttgctatggt ttccaagggt gggggaattc ngggaccgan 540
 ggct 544

<210> 7339

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7339

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acaagtagct gggaccacag ggggtgtgtgc caccacgccc agctaatttt ttgggtcagc 120
 caggcacagt agctcacgcc tataatccta gcactttggg aggccaaggn ggatgggtca 180
 cccgtgatca ggagttcgag accagcctgg ccaacatgac aaaaccccat ctctactaaa 240
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 gaggcaggag aatcacttga acccggggggt gaaggttgca gtgagctgag attgcgccac 360
 tgnactccag nctgggcaac agagcgagac tccatctcaa aaaaaaaaaa nnaaagagag 420
 agacagggnt naccatgntg cccagctga actcaaaact ccgggccaaa naagggtccg 480
 gccccgcttc aagggcngga atacagg 507

<210> 7340

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7340

gagatggagt ctactctgt cgccaggctg gagtgcagtg gcacaacctt ggctcactgc 60
 aacctctgcc tcccgggttc aagggtattct cctgcctcgg cctcctgagt agctgggatt 120
 acaggcacac cccaccaccc ccagctaatt tttgtatttt tagtacagac ggggtttcac 180
 catgttggcc gggatgggtct cgatctcttg acctcgtgat ccacccgcct cggcctccca 240
 aagtgtggg attacagggg taagccatta cgcccggcca gttttgttc tttctcaaa 300
 tattttccat ccgtgggtga ttgaatccac aaagacagag actgcgagct gactgtactg 360
 caaagtgtct ggatcttaag gacacagggc ctctaggcca gccttcaacc cacctggttt 420
 tcagatctgt gtcaccatga ggggagcaga tggcttgagg atgggccccca nccttcacag 480
 nagccaagct tggctttttt ctaagggtta aaataaaacc ttttntttg nanttcngga 540

<210> 7341

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7341

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atctagaaaa taacatttta aaaaatgaaa atattttaca ggaaataaca tttgtacata 60
ctcataacag tctcaaagag aaaacgattc ctctacccac agaacgcttc tgaaatcaca 120
tgtgtgtaag cctttccctc cacaccaacc agctctccaa ctccctctca gacaccaacg 180
cgatgtccta caatttaact cgattctgtc accaattgcc cggagctagt gcagaaccca 240
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ggccccgggg accccacgac ccccttctca ggttccaatt ttttttttg agatgggtct 360
ctctgtcgcc caggctaaag tacagtgtcc agatctccgc tctactgnaac ctccgntcc 420
aggttcaagt gattctcctg ncccaggctt ccaagtagct gagattacag gcgcacgcca 480
acaagcccaa ataaattttt ggatttttag gccanaaagg gggtttggcc tngttggncc 540
anaaagggtt t 551
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<210> 7342

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7342

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gctttctttc tcctttgggg ggaaaaaaga gtaggtgaga gtatatataa aacacgattc 60
tcttggcaat tgggtgcctgg ttttccactt tttttttttt ttttaatttt tatggttttg 120
gagtcagggt cttgccctgt tgccgaggct tcagtgcagt ggagcagtca tggctcactg 180
cagcctcgac ctcttgggct caagttgtct ttctctgtg gtcccctgag tagctaggac 240
cacaggtgct agtactcctg gctaagtta aaattgaggg tcttgcctga ttgtccaggc 300
tggtctcaaa ctcttgggat caagcaagcc tcctgcctca gtttcccagt gttgggatta 360
cagggtgtgag ccacatgcc tggcgtaaga tatatttaag tcagcagaaa acccaagtga 420
cattttaata taattcagat aatcctgagt caagctttgt aggctgaagt aaatgaaggg 480
ccttccttga ggcccttttg ctctggggca ttgnggggca ccaaccctg ggggtggncc 540
tttgcaa 547
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<210> 7343

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7343

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aaaactttat tctttatttc atttacaagc taccaaatat tatgtatcgt acacagtgct   60
gaacacttaa atggctgtag tcatggaagg atccagactg aatggaaagc tgttgagaaa  120
gaaaagataa aagcaaagta atactgcaac aggaaggtgg caaaagcata gttttgccat  180
aataaaatca attagatttg tgattataca tcagttccgg ttaaaatgtc tgagcgccat  240
gcgattttca gctttattgt ctgcagtctg actaaagtct gtatagtcac tttgtctttt  300
gcagttatta aaataaaaaa aagttaaaaa ctatagcagc aacaagcaaa ccctgtgaca  360
ggaaggcaag ggttaagaac taaaaagagt ttatacagtg tgttcaggga aagtgtgcag  420
tttatcttcc atcagcagga gttcgactga gggacaacat gattcgggca aatcgctcac  480
agagttcatg cctggaatat gaaaggtact tcggggctca tnggaacttt taatcttcat  540
ngaccattca                                     550
    
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<210> 7344

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7344

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caacctccgc cccctgggtc aagagattct tctgcctcag cctcctgagt agctgggact  120
atgggcgcgt gccaccatgc ccagctaatt tttgtatitt cagtagagat ggggtttcac  180
catgttgccc aggctgggtc cgaactcctg acctcgtgat ttgcctgcct cagcctccca  240
aagtgctagg attacaggga tgagccaccg tgcccagctt tttttttttt tttttttttt  300
    
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taatatcaaa cgcttcatga atttgcacgc catccttgca caggaccat gctaattctc 360
 tctgnatcat tccagtttta gtatatgtgc tgccaaagca agcactccag cctactctag 420
 gcctttgacc ttgctgacag gaaganggga ntgcangtct gggcttccan gggctggctc 480
 gacccggggc caancattct aacttggcat accacaagta gggctttgct ggattc 536

<210> 7345

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7345

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 tacaggcgcc caccactatg cctggctaata tttttttgta tttttaatag agacagggtt 180
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 aaaactggat atccacatgc agacgaatga tacttgatcc ctatctctca ctttacacaa 420
 aaatcaagtc aaaatggatt aaaggcttaa atctaagacc tcaaactgng aagtaccaca 480
 agaaaacatt gggggaaaca cttnaggaca tctggctggg caaaatggtt ttgagtaatn 540
 ccncaa 547

<210> 7346

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7346

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cagcctcaac ctctaggctc aagagatcct cccacctcag cctcccaagc agctggtacc 120
 ataggcgat gccaccacac ccagctaata tatatatcc ttgctgcaat ggggtctaacc 180
 atgttgccca ggctggctc gacctcttg gctcaagtga tctcccacc ttanactccc 240
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 tagtaatggg ggcaagggtt ttataaata aatgcctctt cctacaggac aaaatcatat 360
 gataattttc tattaagata ttattcaagc ctgagggtga aaaaancctt gaagatacct 420
 tttttaagg cccctgccta agtncagctt aagaaagcta ttaactnagt ttncacacct 480
 ntgctaaacc caggngatnt aataccatgg accng 515

<210> 7347

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7347

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 gcaacctctg catcccgggt tcaagcgatt ctctgcctc agcctcccga gtagctggga 120
 ttacaggcat gcaccaccac gtcccactaa ttttgatatt ttagtagaga cgggggtctct 180
 ccatgttggc caggctggc tcaaactccc gacctcaggt gatccgctg cctttgcctc 240
 ccaaagtgt gggattacag gtgtgagcca ctgcacccgg cctatgtgtg tctttacagg 300
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 agcctcaatc tcccangctc aagtgatctt nccaacntaa cctntggagt ancttggact 480
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 ccagactggg ctanccaagg ctgttgaacc cttaacn 576

<210> 7348

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7348

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gagaccgagt ctcgctctgt cgcccagcct ggagtgcact ggcgcgatct cggctcactg 60
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tacagggtgcc cgccaccact ctcagctaatt tttttgtatt tttagtagag acgggggtttc 180
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caaagtgtg ggattacagg cgtgagccac cgcgcccagc cctggatatg cttgcttttt 300
gaaaatttac caagctgtac atttatgatg aatgcacctt tctgtatgtt ttattccaat 360
aaaaataagg agtaaacata atcctgattc taaaactgaa caaaaagaat gctgaaaatt 420
ctttctgaat taattttaaa cttttgattt ttcaaaangc atgcttctac tnctaacttt 480
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aaacntgcng ggaaaaagnc a 561

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<210> 7349

<211> 484

<212> DNA

<213> Homo sapiens

<400> 7349

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canatttaaa ccgtnnttat ttntacagca acatntgaaa atagagagca gccgcctcac 60
ccgcaacagg gggagcccct cctgccacca ggggaccgtc gccgcccctc gcganaagct 120
gcaggcgtgg ggggaggcga ggcaggatgg ctcggtgggc ggtgcccggg gcgggggtcgg 180
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cccggcgggtg ggaggacgga ctaaggggag gtccccgtcc tgggccacgg ggcgatggcn 300
cgggtaggac ncatccctca naggccagga ggagcgcgag aaggtcccag gacccccttg 360
ggaggccccg ntcccganaa ttagagacct gggagatacc accgcacgga atgggggtga 420
ttaangcctg gccggtacca ctngaaaang gaccanggga agncccggta ntaccngng 480
actt 484

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<210> 7350

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7350

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agcggcccgga ggcgccaccct gggctcgaac catggaggcc aggttccatg gggccaagcg 120
cagtggctga tgggaaggca ctttcgtccc tgggagaccc aggcaccaat tctccgctgc 180
gcgttttttt tttttgttt gtttgtttt ttttctgcca caggtgcctc atctctctg 240
cctcaaacct cagctgaaac ttttggcct tctttcctcc ttgggtact cgtagcagcc 300
tgaggcgcag cgtgggctcg aaccagggat gtcagcgtcc tcgggacca gctcaagggc 360
tgacggaaag acactttcgt cagtggggga cccaggcccc gnttntccgn tgcgcggttt 420
ttcttctttc tctgccaan atgccttaen tteccttaag ggctttctgn ttttctggg 480
gtaccctanc 490
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<210> 7351

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7351

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ggtagagagc tagggacctt gccagcctg accctggggc aggcaagcgg cccccagcc 180
cccaccacca ccccaggaga gggcggggtg agaaccggag tcaaattctg ggccgggtcc 240
aagcgcctga gcgcccgtt tacgcaggaa atagtccagt tctcagaagt ggtctaacca 300
gccccagccc cagcccggca ccacctggag gtttaagta catggaggag aggagtaagg 360
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cggacttagg ccctggtatg gagaaagggt gaaggagag agaggacctt gcgctcanga 420
 gggagcgtgg tctatggcgg gaaccacggg tcccgaacgg gcgtggccga ctgtgccgga 480
 aggccccgga tccccgtggc caaggccagg cccaagggcc ntnagggccca aggtgcccc 540
 cagtgggctt caacaangcc ccgggcnaaa a 571

<210> 7352

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7352

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 ggtgcagtcc ccctgcaggt gactcaggat ctcccgggtg gtaaacaggc ggaaggcaat 180
 ctgctcacac tcttgcttgg tcccacattc aaacaaacac ccaaacaagc cctcctcctc 240
 cagagcagcc agatcagagt agccacaggg cccacagtgc aagatccagg ggcgggacca 300
 gcaggcagcc tccaaggggg tctggttgag atagatacct aggtcaaccc tctgtttcct 360
 actggttggg tgtgagtaca agagccatga ttctgacggt gttccagctt cctccttcag 420
 cctcagtga ctgcctggag agctctgctg aatggtgggt gcctctttgc tgctagaagt 480
 cctggcacct atnggatct caaggggccc gaacttacac actccttggc aacctgtgg 540
 gggcttacan aactgcnaat tanggcc 567

<210> 7353

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7353

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 cagcctcccg agtagccggc attacaggcg cccaccacca tggccagcca atttcctgta 180
 ttttcagtac agacagggtc tcacatgtt ggccaggctg atctcgaact cctgacctcg 240
 tgattcacc acgtcggctt cccaaagtgc tgggattaca ggcgtgagcc actgtgctca 300
 gcgtgtttgt gaagtttcat gtcattactt atctataact cagacagttt actcatgaat 360
 aatggcagtg cttgccccac agggaggtaa tgaagaaaaa tgggaaacat ggggaatttc 420
 ctacctatta gacctgtagt ggaggctctt ctgggagtga agcttgctgg tcctgccact 480
 tttatctact tnaaagccta atccttaata agnactgnta ttctnggacc tatttaaggc 540
 aaggnggcn aatttaagta ccggaacttc caa 573

<210> 7354

<211> 417

<212> DNA

<213> Homo sapiens

<400> 7354

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 aagctccgcc tcctgggttc acgccattct cctgcctcag cctcccgagt agctgggact 120
 acaggcgccc gccaccgcgc ccggctaatt ttttttttgt atttttagta gagatgggg 180
 ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc gtgatccgcc cgcctcggcc 240
 tccaaaagtg ctgggattac aggcgtgagc cactgtgccc ggccttcaat tttatttaat 300
 aattatgcat gtgtgggatg caatgngata ttttgatacg tgtatacaat gngaataatc 360
 aaattagggt acttaacata cctgncacct aagaatggnn ntnataatat ttatttg 417

<210> 7355

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7355

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gcatgtgcac acatgtatac atttattgca taaaattcat catagcactt tcccccatat 60
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atataaaaat ggacatcaga ttagagatac aagttcatac gctgaactga attgtacata 180
ccaactgcct ggctatggaa acccgtgact tgacttaggg gtgctgatga catgatctcg 240
acaagaacct cctagcaact ctcagggtgga ggcagcacag ggatgcgggtt cctgggtgagg 300
agggtcctca ctcgggtgacc aactgcctg ggctcacagc tggagggtc acccatgagg 360
gacacgggtg gacacccact gcttcacatg cctaattcac attagaaaca tgtaaagcca 420
ttcagtctgt gcaataaaga gatcctgtat gaaatccact cattccttgg aaggnaactg 480
gccngaggca cgctctggtt gacgggtgacg cacaagtctt canggnctgg antgnatcat 540
gacacagacc cncgtgaaca ccca 564

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<210> 7356

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7356

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gagacagggt cttgctctgt caccagggt gcagtagtag ggcagtggca caattatagc 60
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tgggactaca ggcctacacc accatgcctg gctaattttt aaatttattt ttatttttgt 180
agagacaagg tctcactatg ttgccaggc tgggtctcaa gtcctagcct caagtgatcc 240
tcccatttca gcatcccaaa gtgctgggat tacaggcatg agtcaccatg cctggcctca 300
tcctcctcct tctctctccc aagttgcca gctacctctg gaaagcattc cactggctgt 360
ggctgcccct aaaccattaa gcaagtgaat ggtagtacta cagaccttgg atcaagacaa 420
agaatgtccc agatngggga atcaggacca aggacttaag gttgcattat cagncccaaa 480
cacctaagtg ggcagggttg gaaattctgg attactgnna agngcttctg gaaaaggatg 540
gcaaggttgc aagcctactn tcnccg 566

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<210> 7357

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7357

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ccaactaggt tttatitttag tttccaatat tatgagcaat gatacaggag taactcaagc   60
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gcaaatgaac ataaaaacaa caatgtcagc agcattaaag tgcttttggc catacttctt  180
tcagaaaggg tctctccctc agtgggtataa atttaatttt acgtattgaa gaagctcaaa  240
atttcattca ttccccaggg gctacattga aaaaaaattc atgtttacgc taaagaattt  300
tttttttttc aaaaagagca caaaatccat tggaattgtg tgacagtgat tttccctgac  360
atgctgtgaa gtggccccctg tccattcagg cccggcacac gccgggaaca tccaccacac  420
gcatgtccac ctggcaaagt ccatcacttn gnccacacac acaggacaga ctgagggtctt  480
taaatcccag cgggtntgtg acngggcatt anctgggatg nggccccaac aggncccaag  540
g                                                                                   541

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<210> 7358

<211> 433

<212> DNA

<213> Homo sapiens

<400> 7358

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ctgccacagg tgcctcacct ctcttccctc aaacctcaac tgaaactttt gggccttctt.  60
tcctccatgg ggtactccta gcagcctgag gcgcactgtg ggctcgaacc agggacgtca  120
gcgtcttcgg ggcccagctc aagggtgac ggacactttc gtccgtgggg gaccagggcc  180
ccgtttctcc gcggggcggt ttttcttttt ctctgccaca agtgctcac ctccccctca  240
tgggccttct gtccgacttg gggtagccct agtggccaga cgcacaccct gggttcgaaa  300
ctgggacact aggttccccg gggcccagcg caagggtga tgggaagaca ctttcttctt  360

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tggggaccca ggctctgctt ntccgcggcg ttttttntg ggtgttgntg ntggttingtt 420
 tttnggtntt tgg 433

<210> 7359

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7359

cgctcttggt gccaggtta gagggaatg gtgtgatctc agctcaccgc aacctctgcc 60
 tcctgggttc aagcaattct cctgcctgag cctccggagt agctgggatt acaggcatgt 120
 gccatcacgc tcggctaatt tttttatatt tagtagagat ggggtttctc cgtgttggtc 180
 aggctggtct caaactcacg accgcaggtg atccgcccac ctgcgcctcc caaagtgctt 240
 ggattacagg cgtgagccgc cgtggctggc ctgaaaaaca aagattctta aaggttccaa 300
 ggttctttta aaaaaaaaaa aaaattgcta ctaggtaata ttattcacct ggggtggaaat 360
 gaccgagtaa gaaaggtagc agagagcttg caatattgaa tcaagtctga tatattgcga 420
 gaatgctgct ggcaaagaat cattaattgg aaaagtagaa aaaaagaaac tngaaataa 480
 gcagnccaaa agccaaacca aaacttggtg gaaacacatt gatttgccaa tcgtaaaaagt 540
 ntaagggn 548

<210> 7360

<211> 148

<212> DNA

<213> Homo sapiens

<400> 7360

gccaagcccg tgggaattgc cattattcc caaagttgcc aaaatcatca ccaaggattc 60
 accgaggggt cgtgagcggg tgcgtgaggg gaacgaggag gctcaaacac tgactggggg 120
 ttgggagttt ggaggagggg gnnnnnnn 148

<210> 7361

<211> 469

<212> DNA

<213> Homo sapiens

<400> 7361

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aatcaaaac ctgaaatctc ctgaggaatc ttagaataaa ctaaaaagac gaggaatgag   60
tgaatctacc tagaaggtac ttgtttttcc acaaaattgg gtaaacagaa gttgctgctg  120
ttatttgga cttaacagac agcagttagt aaagtcaata aaaagtatta ggggccgggc  180
gaggtggctc atgcctgtaa tcccagcact ttgggaggct gaggtgggcg aatcatttga  240
ggtcaggagt tcgagaccag gctggccaac atggtgaatc cccgtctcta ctaaaaattc  300
aaaaaaatta gccaagtgtg gtggcgggca cctgtaatcc cagctactgg gaggctgagg  360
caggagaatc gcttgaaccc aggaggcana gtttgcaatg agccaaatcg cgccactgct  420
tttcaacctg ggcgactgag ccagactctg tctcaaaaaa aaannnnnn              469

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<210> 7362

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7362

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cggtttcaca actttattaa aaataaattt ataagtaaac aaatcgtaac tttatagatt   60
aaagttgatt gggattaagg agaacctggg tataagagga tctggtacag agaggtctca  120
ggatcttttc ctgagtggga gtacatacga ggtagggaag agaaaacaac aaaccagaac  180
aaagttgctg ctcccaggtc ctctttcatc ctccaccttc ccacacagca ttctgacagc  240
ccctgagctc tcttcaactg cactacaaaa gggcaggcca cccccagcac agtcaagtcc  300
tgagctccct ctgcttgtag ccaggcacca tgtagtgat ttccacctca gggttttctt  360
tttaaaatcc acacccaca tgcctttgca agtcagctct ctcacctctn catactcatt  420

```

tcactctttc ccaacttccc ccagcccaac cttttgccag cttccttcac tcactggaat 480
 tttccctctt ctactattnc nggaaccatt tatttcattc aagccaggaa gccatgccat 540
 tgccagaaaa cncattttg g 561

<210> 7363

<211> 526

<212> DNA

<213> Homo sapiens

<400> 7363

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 tgtttacaga taccaccac cacacctagc taatttttgt attttagta nagacgggat 180
 ttcacatgt tggccaggct actctcaaac tcctgacctc aagngatctg cctgccttgg 240
 cctcccaaag ngctgggatt acaggcatga gccattatgc ccggtcctc tcttaacaca 300
 ctntgcccta taacatcttt ccaaaaatct ttttttatgt ggggtgtgcct ggtggggaga 360
 aggaatggag catttaacat agtaaataaa agtgagatat tccaaatttc tcatttttac 420
 actatgggat aaggatgttt aatactaagg gaaaaattaa ctggtggact ggcttctata 480
 gcttaaggaa tnttaaaatc cactttanat tnggatttcc aaataa 526

<210> 7364

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7364

gaaacagtgt ctctgttgcc caggctagag cgcagtggca tgatcttggc tcattgcaac 60
 ctccacctct cagtttcaag cattctctg cctcagcctc ctgagtagct gggattaccg 120
 gcacctgcca ccacaccgga ctaatttttg tatttttagt agagatgggg ttccacatg 180

ttggccaggc tggctctcaaa ctcttgacct caagtgatct gccacctcg gcctcccaaa 240
 gtgctgggat tacaggcgtg agccactgtg cctggccacg aagttcagac cgtagagttt 300
 ttcataatgc aattgaaacc ttatatctt atgtttcgga caggctgggt acttaactta 360
 aatctttgaa aaaaaaattg aattcaactc tcagaaagct tatggccttt tgcagaatta 420
 taagtttaca aatacctggc atgcacttaa gtgataggat cagattanna aangngcaac 480
 atgcttcttg gtttaacacg cctgaaataa acttaaagga accagaagtn cctngg 536

<210> 7365

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7365

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 gatttaaagc tgtctacata aagaaacaac acaactagct ggaaagggga aaacctagtc 120
 tttcgagcag caggttatgt acacagtatt aaaaaaggaa tatagattgg ggttgttttc 180
 tttttttaaa aaaaccagtt tgagtagctt atctggcctt gtgtcaaaaa caagccaaaa 240
 gttttggaac tggctggaat gtgctgaggg gcaacttggg aaaacggcag ggctcactca 300
 ttcttgggag tatctgattg acacagagga cgctgttgaa ctggggcctt atctgaaaag 360
 agacaaaagg atcatccgag tggcaactga tgggcccttc tagttctcag acactctaca 420
 taggtataga aagcttttgt cagtaaaaac aaattagtga actgaatgaa attttaaata 480
 ttgaatccag ggtttctaca ggcttccttt cccatgggtt aaataccggg gcattatt 536

<210> 7366

<211> 524

<212> DNA

<213> Homo sapiens

<400> 7366

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 acctccgcct cctgggttca agcgattctc ctgcttcagc ctcccaagta actgggatta 120
 caggcgcatg ctaccatgcc cggctaattt ttgtattttt agtagagacg gagtttcacc 180
 atgttgGCCa ggctgggtctc gaactcctga cttcagggtga tccgcccacc ttagcctccc 240
 aaagtgctag gattacagaa gtgctcggcc tcaaaaattt tgaaaagaaa cttagttgtc 300
 aacatgattt cataatagac tgcatactta gtgttacgct ttcccattca attaaaagta 360
 ataatagtct gaaaaaaaaat aattgtataa aggaaagtct actttcagat atgggtagct 420
 ttcaacctat taagttctgg gattttggna actgaagacc ctttcatgng tcccaanagg 480
 ncatcttatt ttaaaggggc tatgctnaac tnaantggcc taaa 524

<210> 7367

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7367

aaagacagtg tctccctgtg ttgcccaggc tggctctgaa ctcttgggct caagagatcc 60
 tcctgtctca gcctcccaaa gtgctaggat tataggtgtg agccaccatg cctggccata 120
 atttctcaaa gtacaatata ccataaggta aaggtttgac attaatgaca gtgaatatag 180
 attcatactt cctatcatct tcatgttaat ttttaaacad tttgtccaac ttatcaggtc 240
 ttattagtct gtgtttttat tagatagcca ataattttat cctgtaatat gtttgatgag 300
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 ttgcagaatt taaaaccttt tagaacaigt gtccatgtgg ccacacatat tatatgggac 420
 gaataaatcc atataactaa gcagatatag aatgcaaaat gctcaaagta aacngaata 480
 ngacccccca ggtgaaactg gtttangagc tggggggtaa ctcatgggca caatnt 536

<210> 7368

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7368

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cctctgctgt tgtagatagt gcttttttca gccaacagct cttaggtgga gcaacactca 180
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catctgaaca caccagacaa tgattactga ttacagaatg gggaaaaggg aagcanaggt 480
gggtncaaac nttttttggg agaattttna ccgcatttcc atttcttctg gaatactggg 540
cctgc 545

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<210> 7369

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7369

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tgagtagctg ggattacagg tgtgtgccac tatgcctggc taattttttt gtatttttag 180
tagagatggg gttttgtcat gttggccggg cttgtctcaa agcctggcct caagtgatct 240
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acgcatcttt tctatagtat caattaggca gcaacatgcc caggaaagca ggccctggaa 360
acaaatcatg attggtgcat cacagaaatt tcttctttgc tgggtggaagg actaggaagt 420
ggggccgagt cataagcaga ngtcaaggtg gagcctttca naagaggact ttctttcctt 480
gacaagccnt tttggagaag aaaggacat ttttcnggcc tttaattcnt tttggttcaa 540

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ggccttaatt tgg

553

<210> 7370

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7370

| | |
|---|-----|
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| cagcctcaac ctctgggggt caagtgatcc tcccacctta gcctccagag tagctgggac | 120 |
| tacaggtgtg agccaccata cccagctaatt ttttaaattt tttgtagaga cgtgggtcttg | 180 |
| ctatgttgcc caggctgggtc ttgaactcgt gggttcaagc aatcccttca ccttggcctt | 240 |
| ccaacgtgct gggattatag gcatgagcca ctgtgcctgg ccctttgttg catttctaatt | 300 |
| aaactttctta gaagagacca aacagtttga tttttaaagt caagtacaaa tttctattaa | 360 |
| ggaagtactt attttcagtt aaataagtca taaaatatac caagaataaa gtttgtatct | 420 |
| agctagaaaa actggcagaa gtttcttaga acattctgng atcatattta taccctgta | 480 |
| tcatactgn caaaaataaa aattggaaac tagatcactg gcngnttata atcnggaagc | 540 |
| cctctnaa | 548 |

<210> 7371

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7371

| | |
|---|-----|
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| aacaggtatt tcttttttaa gccgatgaca cacagtatta caaagacaga gataactgcc | 120 |
| ctgggtcatg ggaggagggg aggctttata accaagtaaa tttggagaaa tactggatta | 180 |
| aaaaaagcta agcaagtttc tttactgaag ggcttcttag agccattaat aagcttatta | 240 |

ataagcttat aggctccttc gttctctaag aggggaacat ttcgtcatgg aatccactcc 300
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 ctggggactt gcagaatccc ttcttctgaa aaagtatggt agttcgcag caccacatn 480
 gaangatcta taanggccga ctnttttaaa ctcantattg ggagcccaaa tagggtagg 540
 gaaanaagcc cttt 554

<210> 7372

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7372

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 gccgcaactt ttaaagaaat tcagtcacct gagggccact gaatttcctg ggcctccatg 180
 gacaggtgct gaagtgtcca catataccag catcagcaga actctaactt ttacacagta 240
 ggtgctcaat aaagagaggg caagaccacc aactgggaag gacctcctc ttagtaatga 300
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 cttgacgac ttctcttctt catgaagata tttttgntc tcttgctcca ctaggacgcg 420
 ctgtcgtgc acgggatccc ccagtctctt cattgggttc atcactttgc cactgatttc 480
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 aatcaacctt agggggtntg 560

<210> 7373

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7373

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aattcttcac agaaagtctc atgtgagggt ttccaaaagc ccccttgtag ccattccctg 480
gtgggnactt aactttcaag gaactttccc tgggaaagga ggccttttat attgnatttg 540
ctttaagggc nanacctggn 560
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<210> 7374

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7374

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aaccacaaa aagacaagaa gtgagtgtaa gattataaaa tgtaaatgat gaaattccag 180
aacaatgtac ttttctcaag ctctgctgca aatttaacac aaacatcagn gttaattaca 240
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tgcacaaaat ctgttgcatg cctggcttcc ttaataaaac tacagttgaa catttccagn 360
gtcaaaaaaa attcaacgaa gctaaactac aggaaaatgc aggttagtag acttttaact 420
aatgcttctg aggaataata taaagttatc aaactgatac ttagaaacaa aagaaaagac 480
attggcatct tggnaatttc attagtttca ataccaaca ttntcnaagc ataaaatttt 540
ctcttac 547
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<210> 7375

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7375

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aattttttta attttttttt tttttgtaga gacaaagtct cattatgttg cccaggctgg 60
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agggtgtgagc caccacacca tgcctacaga aggctttaaa catttccaac gtgagtcata 180
cagtaactca aaaattacac gttgtcttct cttacaagca gtgacttcaa agaacacatc 240
aaattcttcc atatggttgt ttacttcttg taacttcata gagaagtctc tattaagggtg 300
tttggttaacc cttggttttt atttttaaat ggttaaagtt taggaccccc acgataaaag 360
aatctgtgat acaaagcttg ggaacacctc tagagagatg tccaaaagaa ggaacagata 420
accttatgac aagcagaaaa gggagtctta taaactccct gntttttaac ccctgagcaa 480
atgnctcagc atattctggc atcggttcgc tttatctcta actctatctc taaatncagg 540
ttttttttcc tcngcttngg a 561

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<210> 7376

<211> 508

<212> DNA

<213> Homo sapiens

<400> 7376

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gagacagggt ctcagtctgt tgcccaggat ggagtgcaat gccgtgatct cggccaccac 60
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ataggcacac accaccatgg ctggctaatt tttgcagaga tggagttgaa ctcttgggct 180
caaggcatca gcctgccttg gcttcccaaa gtgctggaat tatagatgtg agccaccaca 240
cccagctagc tgtgagtgtt ctttttaatg ttcggtatat tatgatgttt tgacatctta 300
aaaacaaaac taaatgaaaa agaaccttcc tagctgggga atgactgcc ctcctgggggt 360

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tagccaagtc ttatgcatag caagggctca gccaggagta tgcccttgat ctgcaaactg 420
 accaatccag agactccatg ccgncctctag cangcctgta caccacagga gacaatattc 480
 cttgcntang catccanggn cangtcca 508

<210> 7377

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7377

caagtagttg tgtttcttta ttggcgtctt gctgtctcct tttctcctct ctgcgctctc 60
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 tcgatcttat atttgaggaa tgggttgcaa cacgattaac cacatcttgc ttcctccttt 180
 ccttagcaat ctcgtttgct gcagcaacca tccgtgcccg cagctctctc aaggatgggc 240
 tgccgccagc gccagctgcg gcgccgtccg ccatcatcag caaggcggcg caattctgtc 300
 aaaatttttg ttgccgcctc ggcatccta atacctgcag tactcttatt accagactct 360
 tcatagatca tatgcctttg gctcaaagcc tcacatctgt tagtggtttt agaaactggt 420
 tctttttct ttttgacagt acttgatgca ctttgcacag acagggtgtg ttgaataggc 480
 attattttat aagggaataa antctgggn gactggtttg naanaaagg gaaaggggaa 540
 nggagggcaa nttnttttg 559

<210> 7378

<211> 481

<212> DNA

<213> Homo sapiens

<400> 7378

cagatgaagt ctgcctctgt gacccaggct ggagtgcaat ggcatcatct tgtctcactg 60
 caacctctcc ctctgggtt caagcaactc tcctgccccg gcctcccacg tagccgggac 120

cacaggcgcc caccaccaca cctggctaac ttctctatTT ttagtagaga cggggcttca 180
 ccatattgcc caggctgac ccgaactcct gacctcaagc aatctgcccg ccctggcctc 240
 tcaaagtgt gggattacag gcatgaggca cggtgccag ccattcaacc attaatgcat 300
 tactttagtc actcacggcc catctcaatg aaattgaggg caaagaccag ccgntcagg 360
 cagtgtcagc cctcanaatt tattagttag ggcncactgc gttcaggga aggcatanag 420
 gagggactgc agttcctggg ctnttnaana ggaccccan cccttattaa aaagttgnga 480
 c 481

<210> 7379

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7379

gagacagagt ctacgcctg taatcccagc actttgggag gccgaggcgg gcggatcacc 60
 tgaggtcagg agctcaagaa cagcctgacc aatatggtgt tttttcttt tttaaagaag 120
 aacaatcaat catattgcca gaagaatcaa tgaccagcc ctactgcacg ccgagtgggt 180
 gcgacaggct tagatattgt tagaggtttg cttctgctgc caaacgttt gcattctcct 240
 ggggacagtg ctctcctgat gtgactctta ttctgaattt agagcagaag gtggtggcat 300
 atacctggtg agaccaggg agggcaggat cagcaccatg aagatcaaga atatgtagac 360
 tttggtcatc atgatctggt tttccccga cctgcaggaa gtcaaagggtg agcactcgca 420
 gtccccaaa tgctctatgt gccccagtg angcccctgg catgtgcca ctggctgagc 480
 ancttggggg ntaagggtgt gaccaaggga ccggcanaga tatncctntt aaggcaaggc 540
 cttgggcttc ccggcacn 558

<210> 7380

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7380

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cttgtttttt ttttttttt ttgagacagn gtctctttct gtttcttagg ctagaatgca 60
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ttaacttcct gcatagctgg aactacaggc atgtgccacc acatcaggct caattttaat 180
tttaatttaa tttttttgag acatagtctc actctgtcgc ccaggctgga gtgagacccc 240
atttcaaaaa aaaaagtgcc aaatgngtcc cttcaattcc agtcagcact tttggaaaca 300
cgcgtaaaat tgttgccaat gtgcattctg nggtgttggg agtcattgtg caaaatgcgt 360
gggcagcaag cactcttttg ngaaccaagt tctatgaacc accaagtatt ctttctctag 420
gctgaattcc aaggctntgg ttcaaaanag tncagggttc tgaaaggaan gggattggac 480
tatggatgcn gntttcttnt t 501

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<210> 7381

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7381

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cttttgatac agagtcacac tcttgtcacc caggctggag tgcagtggcg tgatcttggc 60
tcaactgcaag ctccgcccc caggttcaca ccattttcct gcctagcctc ccaagtagct 120
gagactacag gtgcccgcga ccacgcccgg ctaatttttt gtatcttttag tagacacggg 180
gtttcactgt gttagccagg atggtcttca tctcctgacc tcatgatcca cccacctga 240
cctcccaaag tgctgggatt acaggcgtga gccaccacgc ccggcccatt ttcgtctttt 300
tctccactgg ctttatttcc tcctcacgc gttccccctt accaaaaaaa agtggggcaa 360
ctaggccagt acaagacagt catcagcctc agggcctgtg cgcacacggg tgtgctggan 420
atgctggcat ggatgggggg ggtgggattt gcttgagtgc tcgtctntga cangnccant 480
naggnatggt tctctacatg g 501

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<210> 7382

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7382

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cttgtgcctt ggtcctcctg ctactatta ggaggacaag agctgagggc caagctatgt   60
tgtgaaagcc aaaagaaaca actgctatag atcgccaaac ctactggta atatacggct  120
tttctttttt gctttgagaa ttgctcatca ttttccaca tgtaagtcca cagactttaa  180
tcaaaggctt cctttgtcat aactaccaat aatcggaact aggattttaa aaggctggta  240
ccagttctcc aagctactgc ctcccagct ctactgtatt caagacagca acctaaggct  300
gcaaacaact catgcttttag gaggaaatga gcaaagagac atctctgaac cccgctaaag  360
atttcagcag gatggccagc atctcccaa aagccaagtt tccagctttc ccataatagt  420
tcaccaggct gtcacttttc atgnactttg atcccgnitt gccaaagttt tcttnccact  480
ttcctttatc aaggagggtc ccagnccaac cttagccccg gaaccaagcc ncagatccga  540
aaganccnac ttttccggac aagan                                     565

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<210> 7383

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7383

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aaagctagtc aagtgaagca gtgagagtgg agaaggaaca aataatctgt aactagttgt   60
gatcaattag ttgtaaacad cactgcactc ggaccagcgc aaactcattc ttaacctaat  120
cacctaaaat aattcttatt atctattctt cttcaggtaa aaatggagcc ctggatgtta  180
ttttaacgac ttgccatcct tctgttttg agagtgtctt tgtaactgg tggcatacct  240
tcgtgaccgc gtcctacctt cctcattcag acctgtgctg ttcatgtctg tattcccagt  300
cccttaaaaa gtactcaaca cgtgaattgc aaaatgaatt aacaactttg agggaggtgt  360
tattatcatc ctggctttac agatgaggaa actaaggttt acttagcaag attaagtaac  420

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ttgcctangg gttacaaacc actagccagg aaacaaaccc acatntgacc ccaaaggcct 480
 tggttttact ntancctact ggntagaaaa gctttttaaa ggcttgcctt ttggggctta 540
 ctgggggcag tttntttta aagg 564

<210> 7384

<211> 484

<212> DNA

<213> Homo sapiens

<400> 7384

gagacagaga ctactctgt tgcccatggt ggagtgcagt ggtgcgatct cggctcactg 60
 caacctctgc atcccanatt caagngattc tcttgccctca gcctcccaag tagctgggat 120
 tacaggcgcc tgccatcacg cccactggct aatTTTTTTT tttgtatttt tagtaaagac 180
 agggtttcac tatgttggcc aggctggtct cgaactcttg acctcaggng atctgcccac 240
 ctcggcctcc caaagngctg aaattacagg catgagccac cgtgctgggt ccctaactat 300
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 gggaagctga atgcctgcag tcagatccag agagcctttt ggacaagaag gggacaagcn 420
 agaaccncng aagtcaggga aggggggaan ggaatcttgc agggcantat ancaancgtt 480
 gagt 484

<210> 7385

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7385

aatttaagag acagggtttt gctacattgg ccaggctggt cttgaactcc cggcctcaag 60
 tgatccaccc gcctcagcct cccaaagtaa gttttgttcc agttctcact gtgggtggct 120
 gtctcctcac agtgacttaa cacctgcttg tgaattcctg caactatgta attacaacat 180

ggttgacatg caaagaaata tggcttatga gaatttaaaa gaaaaatcaa tggctttatg 240
 tttattcatt agcaggtgag acaattattt ttgaaactaa cttttttttt aagatgccaa 300
 cagcactttg ggaggccgag gcaggcagat cactaggtca ggaaatcgag accgtcctgg 360
 ccaacacagt gaaaccctgt ctctactaaa aatcaaaaaa attatctggg tgtggtggtg 420
 tgccgcctgg agtcccagct cttcaggang cttgtggcag gagaattgtt gactctggaa 480
 gnggaagctt gaatgagcca agaatggacc actggacttc ancctggcaa canaangaga 540
 cttcgnttcc aaaaannttt cca 563

<210> 7386

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7386

gtttggcaac tttctggtat tacttgtaaa cactggttcc ttcaacttcc tgatattact 60
 tgtaaacact ggttccttct caaccaccgt attctgattg ggtctataag tagcaccacg 120
 tccacaccac agcacgcttc tgggggtccag gagaccgcct tcactactgt gctggccccg 180
 cctgtgtacg ggccccgggg ccggggccatc cagggtgcct gtggtgctca ccccccatg 240
 gcgctcttct cgctgtcttt ggggctgggc tcctccggag tcttcttcat ctcccagccc 300
 ctgaccacgg tgtaggcgga ggagccgccc agcaccatca tgttgctcgt ccaccagagg 360
 aagctcttgg tctcctcgta ntagaacacg gncagcactg ctgggcacaa gccttggccg 420
 tgcccgcacac aattgggggt caaccggact ggtgaacttg aactgnaatc ctgncacgta 480
 anccnatggc aaagccnaac aggccggcca anggnattaa tcccccaaaa tgggcacttg 540
 ccaaattggg caaagtaccc aagggtga 569

<210> 7387

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7387

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agctttttctc tcattttttt ttgttggtat tttttttaaa aagatgtcac atatgaactg 60
gggaacttta gcacaaaaat caagtctctc ctagtccatc tagcttcccc ttcctcccca 120
cttaaaaaaa agaaaaaatt aaatcacaaa gtcccactta agtcaaaatc ttcgtccgct 180
ttttcagcct tccttcctgc agaccctggc ttagtcatct gagatggaaa gtctgctgaa 240
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ccacccccgg cagncccatg ctaggggcaa aaagcttggc agcttctggc tggaaaagca 480
aaanggtat tgggccatcg gcanggtagg tgaanccngg aggcattnng ctcaaaaanaa 540
gggggggggn aatg 554

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<210> 7388

<211> 497

<212> DNA

<213> Homo sapiens

<400> 7388

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ganacaaggn cttgctntgt caccagggc tggagtgcag nggtgcgac atgatcttgt 60
ctcactgcaa cttctgcctg ctgagttcaa gngattcttg ggcctcanc tctgagtag 120
ctgggattac agnggccgc cactaagcct gactaatttt tgtattttta atanaaatgg 180
gatttcacca ttttggtcag gctggtcttg aactcctgac ctcaagngat ctgctgcct 240
aggcctccca aactgctggg attacaggt tgagccaccg cccctgactc caaatgaata 300
tttgntctaa tcttgctatg gcgaatgan ttggtattga ggtcttgat anacctgggt 360
ttaggatgt agcagaactg gattaatata ctgcatcacc atttattaac agcattgcta 420
aaacnaagct atgnntcctt tctgaaccct ggtttctcat cttaaaaaac aagtnnttga 480
ataaattggc cntnta 497

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<210> 7389

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7389

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caaatcctag gtttggtcct ttatatttatt cagcagtgaag agccatgaat acagaacgaa   60
taacagctgt tacaattctc aacctgact tctaacgtca gagaattcaa agtatgaaca  120
tagtacacag taatgaaaag tatcaaaaat taatttacct caaaaaagat aaataaaaaca  180
ggtatattcc accaatacat aaacagatgt ttgtgctaca gtttaaaatt tgctgtatac  240
aaaagatcat agtccccata atcagcttat gatagaagca agaatacatg agccatttaa  300
attgtcagac attatgcttt ataaggtatg cacagaagtt caagcaataa atacatacat  360
tagttcaaag ccttacaata gctacgcaa gcagatgcag aaaagcagat ttgctattac  420
tagcaagcaa tgatataaga gtaaaaattc atgaaatgca tcaaagcaca tttttcttag  480
aaaaaggctg ggatttatng gtccccaca nttttacnta atatgccaa ttttcaaatt  540
cggncacagc ttttagggacn                                     560

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<210> 7390

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7390

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gtagagacgg gatttccgcc atgttgccca cgctgttccc caacttctga actcaagcga   60
tccgccagcc tctgcctccc aaagtactgg gattacgggc gtgagccacc gtgcacagcc  120
agtgacttct taatatatat cctaaagcgc aagaggcact ggatatttgt ggagtcttga  180
taaccaccag ggaggggccc aaggtaggag agaacaattg ttctgagaga caagtaacca  240
taaacaacgc gctgacacaa cgacctgtct ccacaggtag cccaaatggc acaacctcga  300
tcagcatgta gccccctcca gaagacctta taaaacttcc ctccagcccc tgcctctttg  360

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cagacagccc cttctctgta gtggctacat attgcaccct tgcaatgaaa tttcatactt 420
 tctctaataa atggngcctt tatttttctt cccctacact ggcttggtaa attccttacc 480
 accgnacan cagncccaag caggcacact tagnaagaagt nctaacagtg gagcaacact 540
 tattttcaca gactntaggn ga 562

<210> 7391

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7391

gttgttgttg ttgttttctt tttttttttt ttgagacgga gttttgctgt gttggccagg 60
 ctggagtgca gtgacactat cttagctcac tgcaacctct gcctcggcct caagcgggtc 120
 ttctgccgta gccacctgag agtagctggg attacagggtg cctgccacca cgcctggcta 180
 acttttgtat ttttagtaga gacggacttt caccatgctg gtcaggctgg tcttgaactc 240
 ctgacctcag gtgatccacc tgcctctgcc tcccaaagtg caggtgtgag ccaccacgcc 300
 cggcctgtgt ggtatttttc aaaatttcaa caacaccgtc ataaacagga aaaccgtttc 360
 acagagcccc gatcacagag tagttacctg agggactgca cgccgtgtct ctcagacttc 420
 acgaagaagg ggaccttccc gttcctggtg atatccacca ggctncctt gtcateccagg 480
 atcccgtant ggatggcggc gcggcatatg ctaaacagct ttatagacag agttccaaaa 540
 atcttngcct tgggggtaag g 561

<210> 7392

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7392

gagacagagt cttgctctgt tgcccaggct ggagtgcagt ggtgccatct cggctcactg 60

caagctccgc ctccctgggtt cagccattc tcctgcctca gcctcccaag tagctgggac 120
 tacaggcacc cactaccaca cccagctaatt tttttgtatt ttaagtagag acgggggtttc 180
 accatgttag ccagcatggt ctcgatctcc gagatccac tttatacaaa agaaagggtgt 240
 tctccattct taggaacatg gaaaagggga atccatactt gtgtgaaagt agccccctaag 300
 ccacctccct cctggagatt ctaaggaaac ttatcagccc accatcccta aagaactcct 360
 cccaaggcct caggcactgc tcctttccag gtttcagggg gagcatgctc cagcagccga 420
 cctgtcccca cccggcacca gctgccacaa cctgaaaatc cgcttgctgc caagagctgc 480
 ctgagcccag cccaagcttc caccctgcct tanagacagg atccacctgc tactctggtg 540
 agaagctnta aaaagctac 559

<210> 7393

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7393

ggcttagggg gtggaatctt atttttgact aattccctct gggcattatt tctaaaggag 60
 agaaatttaa gatctaactt ccatataggg gggttatgct cattaatccc actccttatg 120
 attgtaaatt gaagagaaag gatgttcccc aaaggaatga aggttgaggg aaaaccttta 180
 gcccttcttt tcagaagtaa tttatctgac aaggatggca gaagaccaat tattggcatc 240
 tgctttcttt ggccttctct ctccctatac tccatacctc cagcaagcac ttatgtattc 300
 ttgggcttga caagggtgag gtcaggtgca atcttctatc cagctgatgg ctctgtccac 360
 tctaccaagt caactcttcc caagtttagg ctccaaagtc cagttacagg gttagaataa 420
 ataaaggcca attcgatttc cagtctaaac tgcattctac aatttggett cattggcaat 480
 gcancacgta tctgaatctc catctcactc ctcatcttga acttggagat ttgatggctt 540
 ccacaaaagc ccanactcat atggtttn 568

<210> 7394

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7394

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gagttaacaa aatatcttta ataaaatctt tttgtttgtt tgttttgttt tggagacaga   60
gtctgtcacc caggttggag tgcagtggcg cgatctcggc tcaactgcaac ctctgcctcc  120
cgggttcaag cgattctcct gcctcagcct cccgagtagc tgggatgaca ggtgcatgcc  180
accactctcg gctaattttt gtatttttaa tagagacgga ggtttcacca tgttggccag  240
gctggtctcg aactcctgac tcaggtgacg cgcctgcctc agcctctcaa agtgttggat  300
tacaggcgtg agccacggcg cctggcctaa aacccttttt taccacaaaa tggagacctg  360
taaggcgaag tgaggttggg tggctggacg gtgggggtgg ggtgcaagtc ctggatcagg  420
gccggagctg cacttcttcc tcttcttgnt gcccgggggc gcctcgtctt cttgcccana  480
atctttaaaa agctcttggc atgtatangg cccggnccaa ggagccgttg gttccgttca  540
aggctttcag gaagcnnagg aaaact                                     566

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<210> 7395

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7395

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gaggtggaga ctgcctctgt cgcccaggct ggagttcagt ggcattgatct cagctcactg   60
caacctctgc ctcccggtt caagtgttcc tcatgcctca gcctcccaag tggcttggat  120
tacaggtgca acaccaccac acctggctaa tttttgtatt ttagtagag gtgggggttc  180
accatgttgg ccaggtgat ctggaactcc tgacctcaag tgatccaacc actcagccac  240
ccaaagtgtt gggattacag gcatgagcca ccgcaccagg ccttttttgg gctttttgtt  300
gttgtttttg tttgtttctt tttagagaca agatcttgcg tgattgcca ggctggagtg  360
caatgacacc atcatagctc actgcaaact cgaattcctg ggctaaagca atcctcctgc  420
ctgagtcctc tgggtagctg taactacagg cacacactac cacaacaac taattttttt  480

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tttttttttt acagattctt actatgttgc caangctgat ctgaaactnt nagecctaaag 540
ngatcctcca ctttgggcct ctaaattatt 569

<210> 7396

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7396

gagaaaggct tcacttcgcc atcaaagcta gaatgcagtg gcatgattat gggctcaagc 60
catcctccca cctctgccct ccaagtagct gggactacag gtgtctgcca ccatgcttgg 120
ctaatttttt aatttttttg tagagacggg gtttagccat gttgccagg ctggtctcaa 180
actcctaagc tcaagcaatc cgccacactt ggcctccac agtgctgggg ttacaggtgt 240
gagccaccgt gccagtgag caattttatt tttatatcat ctctggacct cacattaatc 300
tatttttctc agtaaaagta tactgcaaac aggctccagc aatgacagtc acatccagtt 360
cctcaaattc tttttcttat taagtatgtt gagtaaaactg accgtggttt tgtgtataga 420
ctgataccaa aggcctgacc ctaaagccct caaagactta nagggtgta gggacattag 480
acttcaaacc catcatatcc tctttctatc cttggaaaag caacgcacaa agactttctt 540
aaactcttaa ttctcaagat tattccaggg ggg 573

<210> 7397

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7397

gggacggagt tttgctcttg ttgccaggc tggagtgcaa tggcccgatc tcgactcaca 60
gcaacctccg cctcccgggc tcaagcgatt ctctgcctc agcctcccga gcagctggga 120
ttacaggcat gcaccaccac gccagccaa ttttgtatct ttagtagaga cgggtttcgc 180

catgttggtc aggctgggtt cgaactcctg acctcagggtg atccgcctgc ctgggcctcc 240
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